RODEO

HOLDEN

www.holden.com.au

Owner's Name .....

Address .....

Town .....

State.....Postcode .....

Model Name .....

Reg. No.....Eng. No. .....

Odometer Reading .....

Date of Purchase .....

(17 character I.S.O.V.I.N.) Vehicle Identification Number

Vehicle Identification Certificate

Selling Dealer's
Stamp & Signature

Holden Ltd ABN 84 006 893 232 (hereinafter Holden).

Change of name, address or ownership

In the event of a Safety Recall, or for various reasons, we may need to contact you as the owner of this car. Also, if less than three years old, this car will qualify for Roadside Assistance, refer Chapter 9. If you have recently changed your address, or name, or purchased this car second-hand, please help us to help you by taking a few minutes to fill in and mail the form on the third page of this handbook.

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We thank you for choosing Holden and want to assure you of our continuing interest in your driving pleasure and satisfaction.

This handbook applies to current model Rodeos. Therefore, due to different models and options, you may find reference in this Handbook to some equipment not fitted to your own vehicle.

Please note that all information, illustrations and specifications in this Handbook are based on the latest production information available at the time of printing. Holden reserves the right to make changes at any time without notice and without incurring any obligation.

CHANGE OF ADDRESS OR OWNERSHIP

Please fill in the form below if you have changed your name, address, bought the car second-hand, or have become the new driver.
Holden requires these details in order to contact the operator in the event of a safety recall and to keep the initial 3 year Roadside Assistance details up to date (refer Chapter 9).
Please mail to the address on the back of this page.

Please tick the appropriate box:

☐ Original Owner ☐ Subsequent Owner

Mr, Mrs, Ms, Miss, Dr, etc.

First name in full or initials

Surname or Name of Company/Institution/Government Department

Address

Street/box

City/Town

State Postcode

1st contact phone no

2nd contact phone no

Email address

Car registration number

Holden Number (refer Chapter 8)

ISOVIN No (refer Chapter 8)

Place in an envelope and mail to:

The Manager - Warranty Administration
Service Department
Holden's Limited
Box 548D, G.P.O.
Melbourne
Victoria, 3001

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CHAPTER 1

Dash

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LAYOUT

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2 Passenger's air bag (if fitted)
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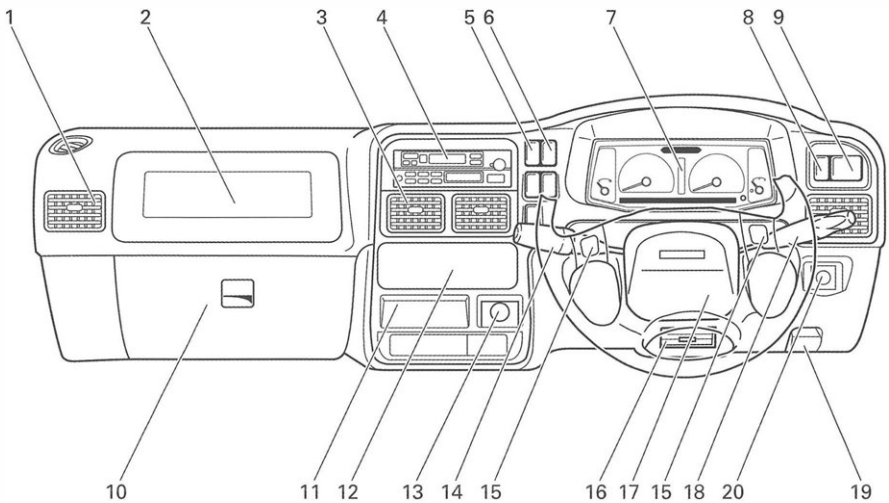
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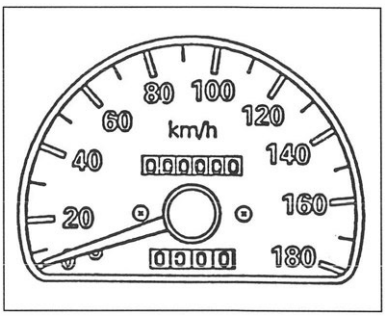
GAUGES

Speedometer

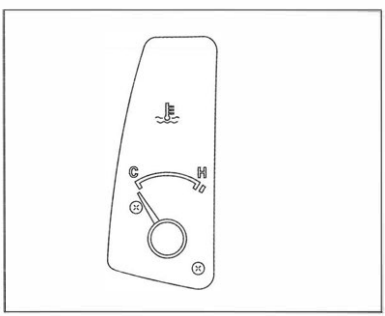


The Speedometer gauge indicates vehicle speed in kilometres per hour.

The odometer (A) records kilometres travelled since the car was built.

The tripmeter (B) records kilometres travelled on a particular trip. Push the tripmeter knob (C) to reset the tripmeter reading to zero.

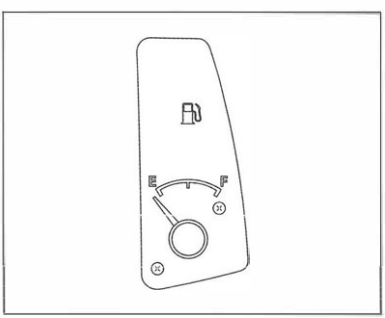
Temperature gauge



The temperature gauge indicates the engine coolant temperature.

Stop/start driving in heavy traffic, driving at high speed in warm weather, hill climbing or towing may cause the needle to move toward the extreme top of the gauge. This is normal, and is not cause for concern. However, if the needle should move all the way to the "H" mark on the gauge and remain there for more than 30 seconds, you should stop the vehicle as soon as it is safe to do so. Refer Chapter 6 for overheating instructions.

Fuel gauge



The fuel gauge shows the level of fuel in the fuel tank. "F" represents full, "E" represents empty.

If your Rodeo is fitted with a tachometer the gauge will show fuel tank contents at all times, regardless of the ignition key position.

If your Rodeo is not fitted with a tachometer the needle in the gauge will fall to empty when the ignition is turned off. Fuel tank contents will again be displayed when the ignition is turned to ON.

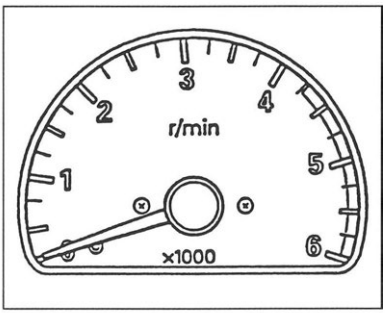
Refer chapter 5 for re-fuelling instructions.

GAUGES, CLOCK, DIMMER, WARNING LIGHTS

Tachometer (if fitted)

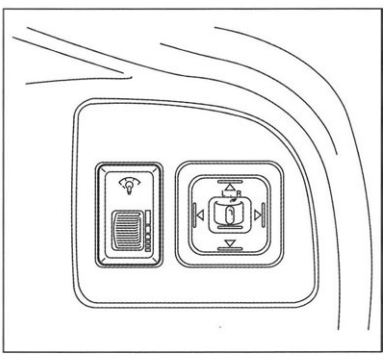
The tachometer shows engine speed in revolutions per minute (r.p.m.).

Continued or operation in the RED zone may cause serious engine damage.



Dimmer - instrument lighting

To adjust the brightness of the instrument panel lighting, make sure the headlights are on, then turn the dial illustrated, located to the right of the steering column.



Warning lights

Power drive (auto transmission)

The POWER DRIVE light will come on when the engine is running and 'power drive' selected, refer chapter 4.

POWER DRIVE

Check trans (auto transmission)

To check that the warning light is working, the symbol is displayed for a short time when the key is turned to ON.

If the symbol flashes it means that the computer controlling the transmission has found a problem. The vehicle can still be driven when the light is flashing, but the computer may put the transmission into 'safety mode' (refer chapter 4) - the transmission should be checked by your Holden Dealer as soon as possible.

CHECK TRANS

Automatic transmission oil temperature

To check that the warning light is working, the indicator light turns on for 3 seconds when the ignition is turned to the ON position.

If the light comes on while driving it indicates that the automatic transmission temperature is too high. You should stop as soon as it is safe to do so, leave the engine idling and place the T-bar in "P". If the light goes out you may resume driving. If the light does not go out you should have the transmission checked by a Holden Dealer as soon as possible.

A/T OIL TEMP

WARNING LIGHTS

Turn signals

The appropriate arrow will flash when the left or right turn signals are in use.

High beam

This symbol is displayed when the headlight high beams are in use.

Overdrive OFF (diesel with automatic transmission)

The overdrive OFF indicator comes on when the overdrive switch is turned off.

O/D
OFF

Oil pressure!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving, it indicates that the oil pressure is dangerously low. Stop immediately and check the engine oil level (refer chapter 7). Do not drive the vehicle with this symbol showing. If the oil level is normal, have the system checked at your nearest Holden Dealer.

Low fuel!

This symbol is displayed when the petrol tank is approaching empty. Never let the tank become empty.

Brake!

If this symbol is displayed when you are driving and the park brake is fully released it indicates that there may be a fault with the braking system. You should immediately stop the vehicle (as carefully as possible) and check the fluid level of the brake master cylinder, as shown in chapter 6. Do not proceed until the reason for the warning has been located and rectified.

BRAKE

In addition, diesel equipped vehicles are fitted with a low vacuum warning which may illuminate when the brake pedal is "pumped" with the engine running at low speed. This is due to insufficient vacuum being generated and does not indicate a problem. However, if the light is illuminated after 2 or 3 seconds at idle, the vacuum line may be defective and you should see you Holden Dealer.

Battery!

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated when driving it indicates that the generator is not charging. If the generator drive belt is intact there is a problem in the charging system and you should see your Holden Dealer.

WARNING LIGHTS

Glow plug indicator (diesel only)

Your diesel engine has a special starting system. Turning the ignition key to "ON" starts the system and turns on the indicator light for 2 to 7 seconds, when the engine is cold.

When the glow plugs have heated the engine enough for it to start, the indicator light will go out. This tells you the engine is ready to be started.

Fuel filter indicator (diesel only)

Under certain circumstances water may be taken into the fuel tank, and to prevent water from reaching the vital parts of the fuel system a water separator is installed. When the level of water trapped within the water separator reaches the specified level, the indicator symbol is illuminated. If the symbol comes on and remains on while the engine is running, it indicates the need for draining of the water separator, refer Chapter 4.

Four wheel drive indicator (4WD only)

The symbol is displayed when the transfer lever is shifted to the 4H or 4L position. It does not necessarily mean the vehicle is operating in four wheel drive. Refer to chapter 4 for driving instructions.

Check engine

CHECK ENGINE

Your vehicle is fitted with an Electronic Engine Management System. The check engine symbol indicates when system service is required.

To check that the warning light is working, the symbol is displayed when the ignition is turned to ON - until the engine is started.

If the symbol is illuminated while driving it indicates a fault in the Engine Management System or the engine immobiliser system. Although the vehicle may still be driveable it is recommended you have a Holden Dealer correct the problem as soon as possible, as continued driving could affect fuel consumption and engine performance.

Air bag (if fitted)

AIR BAG

To check that the bulb and system is working the AIR BAG light will blink 7 times when the ignition is turned to ON.

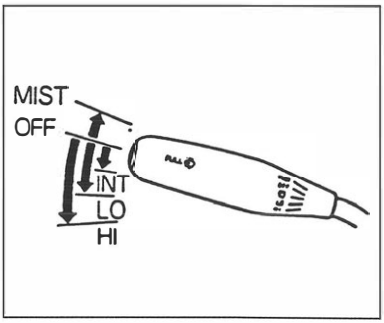
If the symbol is displayed while driving it indicates that the air bag system may not inflate in an accident and you should see your Holden Dealer.

Seat belt reminder (if fitted)

On some models, when the ignition is turned ON, a reminder light is designed to come on, reminding occupants to fasten their seat belts.

WIPERS, WASHERS AND DEMISTER, HORN

Wipers and washers



The lever on the left of the steering wheel column controls the windscreen wipers when the ignition key is turned to ON.

LO: low speed

HI: high speed

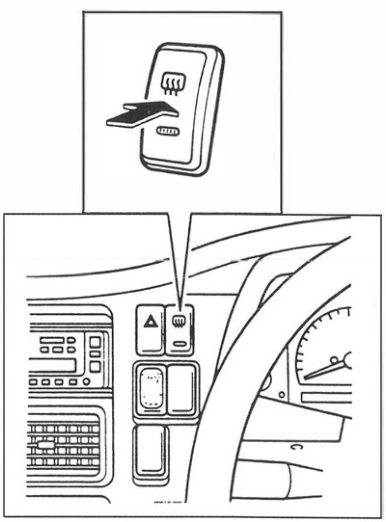
INT: wipes every few seconds

The wiper sweeps continuously while the lever is held in the MIST position.

Never operate the wipers on dry glass, as this will damage the rubber and scratch the glass. To obtain a spray of fluid, pull the lever towards you. This will automatically turn on the wipers for a short time, if not already operating.

Clear the wipers of any snow or ice before switching on.

Demister (if fitted)



Operational when the ignition is switched to "ON", the switch for the rear window demister is located on the instrument panel, to the left of the steering column.

Press the switch to turn on the demister. The light in the switch glows when the demister is in use.

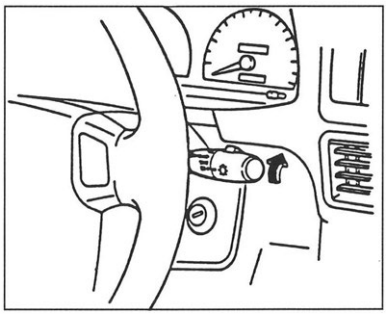
Re-press the switch to turn off the demister when the rear window is clear.

Horn

The horn is activated when one of the pads, located on either side of the steering wheel is pressed.

HEADLIGHTS AND TURN SIGNALS

Light switch



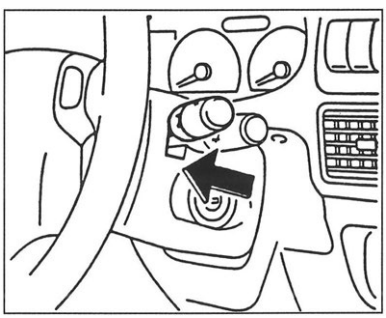
The light switch has 3 positions:

Off: All lights off

Park lights and illumination lights on.

Headlights, park lights and illumination lights on.

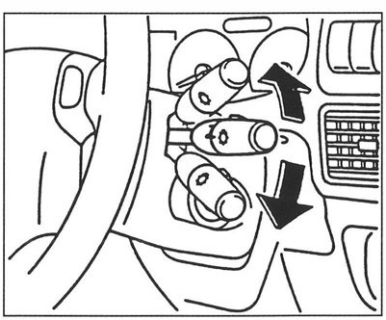
High/low beam



High/low beam is controlled by the lever on the right side of the steering wheel column. With the headlights on, pull the lever towards you, until you feel a click, then release. The headlights will change between low and high beam. When the high beams are in use, a symbol on the instrument panel will be displayed.

It is also possible to flash the high beams for signalling purposes (even if the headlights and/or ignition are switched off) by pulling the lever towards you.

Turn signals

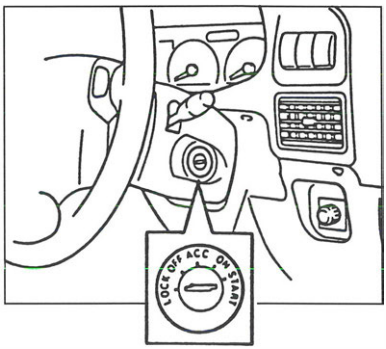


The turn signal lever is on the right side of the steering wheel column. Push the lever down to signal a right turn, up to signal a left turn.

An arrow on the instrument panel will flash when the lights are in operation.

IGNITION SWITCH AND DIESEL IDLE SPEED

Ignition switch



LOCK Normal parking position. Accessories and engine are off. This position locks the ignition and steering when the key is removed. The key can only be removed at this position. To release the steering lock, insert the key into the switch and turn it to "OFF" or other positions. If you have trouble turning the key to unlock the steering, turn the steering slightly to the right or left while twisting the key clockwise.

OFF The engine and accessories can be turned off without locking the steering.

ACC (accessories) The engine is off but accessories such as the radio still operate. To avoid flattening the battery, avoid excessive use of accessories when the engine is not running.

ON This is the position at which the engine is ready to start and all electrical systems are active. Do not leave the switch in the "ON" position for a prolonged period, unless the engine is running, otherwise the battery will discharge.

START This is the position for starting the engine. The key should be released from this position as soon as the engine starts.

CAUTION: Do not turn the engine off while the vehicle is moving or there will not be any power assist for brakes or steering. Never remove the key while the vehicle is moving, as this will lock the steering.

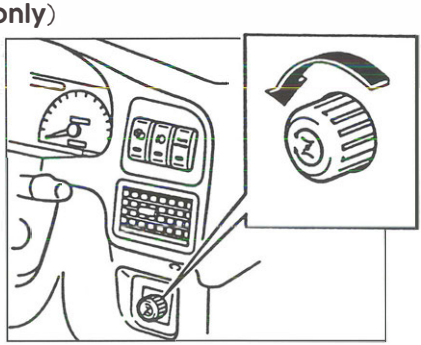
Immobiliser

To provide additional security, your Rodeo is fitted with a vehicle immobiliser. The engine will not crank unless the correct key (correctly programmed) is used. Any additional or replacement keys must be purchased from and programmed by, a Holden Dealer.

If the immobiliser system has developed a fault or an incorrectly programmed key is used to attempt to start the vehicle, the CHECK ENGINE light will begin to flash.

Diesel idling control knob (4JB1T engine only)

Turning the knob clockwise after cold engine starting will increase idling speed, thereby providing a smoother cold engine idle. Remember to return the knob to the home position after the engine has warmed up.



HAZARD, PARK BRAKE & CLOCK

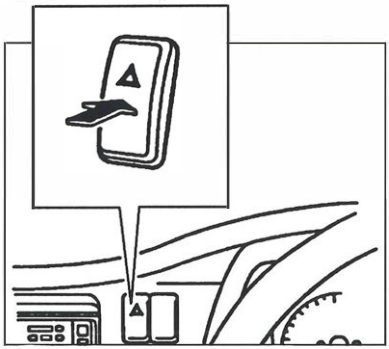
Hazard warning

Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night.

Turn on the hazard warning flasher (regardless of the ignition key position) by pushing the switch, as shown.

To cancel the flasher, push the switch again.

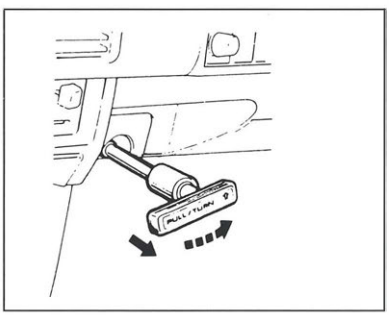
Use of the hazard warning system while the vehicle is moving is illegal in some States.



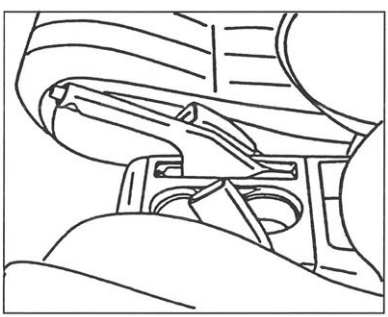
Park brake lever

Never drive with the park brake applied, as this may overheat or damage the park brake.

Dash mounted type: A ratchet type park brake lever is mounted to the left of the steering wheel column. To apply the park brake, pull the lever out. To release, pull out and turn the lever anti-clockwise and then push it back into home position.



Console mounted type: Pull the lever between the front seats upwards to apply the park brake. To release, pull the lever slightly upwards, squeeze in the release button and lower the lever all the way down.



Clock (if fitted)

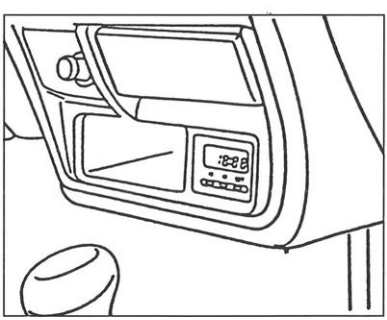
Time is displayed when the ignition key is turned to :ON". The display is adjusted as follows.

H Hour display is advanced rapidly while this button is depressed.

M Minute display is advanced rapidly while this button is depressed.

SET When the SET button is pressed the time is rounded off to the closest hour.

The clock does not display seconds, but starts from zero second when the "SET" button is pushed.

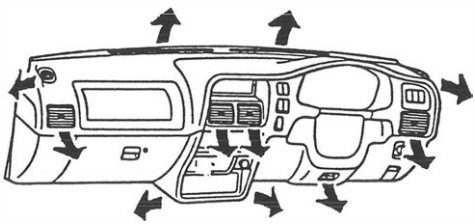


VENTILATING AND HEATING

The vehicle features a flow-through ventilation system for your comfort. Under reasonable conditions, it shouldn't be necessary to open the windows at any time. Fresh air (when selected by the Air Source Lever) is drawn into the vehicle through the grilles in front of the windscreen. Do not allow them to become clogged with debris, such as leaves or snow.

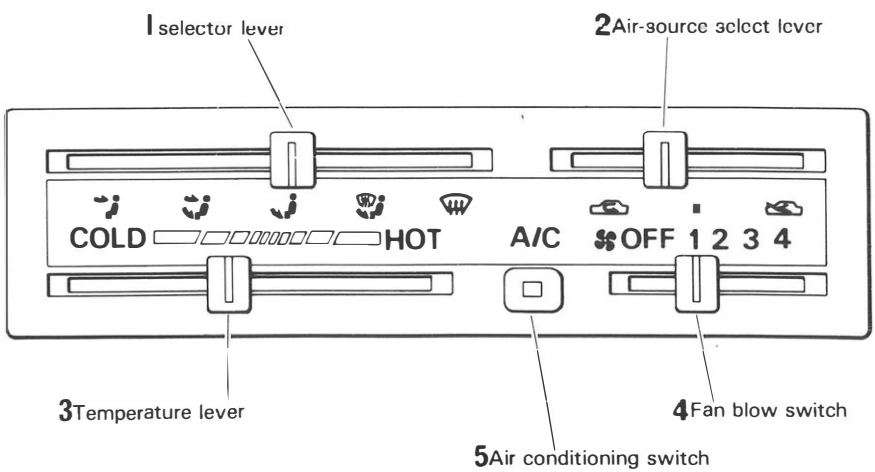
Outlets

The air can be directed by the Select Lever to four different types of outlets: window, demister, windscreen demister, floor and face level.



The four face level outlets on the instrument panel have adjustable vanes which may be swivelled up/down and left/right to allow directional control of air flow.

The floor, window demister and windscreen demister outlets are fixed, as these direct air to the windows, windscreen or feet in the best possible way.



HEATER CONTROLS

1. Select lever

Different vents are selected when this lever is set in the following positions.

Air will flow from the four face level outlets.

Cooler air is delivered from the face outlets and warmer air from the feet outlets, except when the temperature control knob is moved to its extreme right or left positions, when the air from the upper and lower vents will be at the same temperature.

Air will flow from the foot vents

Air will flow from the foot vents, window demist and windscreen demist outlets.

Air is delivered from the window demist and windscreen demist outlets with a small amount from the floor outlets.

2. Air source lever

Air intake source is controlled by sliding this knob:

Outside air is drawn into the vehicle.

Air within the vehicle is re-circulated with the aid of the fan.

Re-circulating the inside air for an extended time is not recommended; switch to outside air as soon as possible to renew the air.

3. Temperature control

The temperature of the incoming air is controlled by sliding this knob.
The further the slider knob is towards HOT the hotter the incoming air will be.

4. Fan speed

Fan speeds 1 through to 4 can be selected by sliding the knob away from the OFF position.

The fan will only operate when the engine is running.

HEATER CONTROLS

5. Air conditioning switch (if fitted)

Air conditioning (if fitted) is turned on when this button is depressed. Repress the button to switch off and achieve lower fuel consumption.

Windscreen demisting

To demist the windscreen, move the Select Lever to "Demist", select air flow and air source required. Demisting will be accelerated if higher temperature air is used.

In high humidity conditions however, operate the system for approx. 30 seconds before selecting "demist" position to purge air from the system.

Hot weather

For a “quick cool down” when first entering the vehicle on a hot day, switch on the air conditioner, select re-circulate, move the temperature lever to full cold and turn the fan to a high speed. Also, open the windows to allow the hot air to escape. After a minute or two, close the windows, as the air conditioning works more effectively with the windows up.

It is recommended to select "outside air" (rather than re-circulate) when the interior cools down (10 to 20 minutes) to achieve and maintain best comfort conditions during extended driving.

The coolest temperature however, is achieved when re-circulate is selected. This can be used in slow city traffic or when the car is stationary in very hot weather. Occasionally select face or bi-level to allow outside air to enter the car.

Performance/fuel economy

The air conditioner uses power from the vehicle's engine. Therefore you will notice a small decrease in engine power, and a slight increase in fuel consumption when the air conditioner is in use.

Cold weather

If the side windows or windscreen fog up on a cold day, switch on the air conditioner, turn the fan switch to a high speed, select "demist" and select a warm setting with the temperature control. This will circulate warm, dehumidified air throughout the car, defogging the windows.

Note that the air conditioner not only reduces temperature but also reduces humidity and dust.

Automatic transmission

If your vehicle is stopped for long periods in hot weather with the engine running and the air conditioner operating, select N or P.

Cigarette smoke

If occupants are smoking, it is recommended that the “re-circulate” position NOT be used.

HEATER CONTROLS

Important

Once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes even in Winter to lubricate seals.

Dust

When following another vehicle on dusty roads, or to prevent exhaust fumes or odours entering your vehicle, select the re-circulate position and make sure windows are closed.

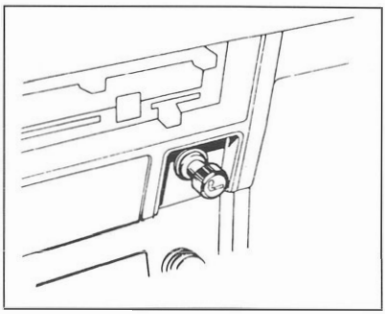
When driving on unsealed roads but where the dust is not airborne, use the fresh air setting of the air source lever (with the windows closed) and the fan preferably on a high speed so that positive air pressure in the vehicle will prevent any dust entry.

CIGARETTES and GLOVEBOX

Lighter

The cigarette lighter is operational when the ignition is turned to ON or ACC.

Press in the lighter knob; when the element is hot the lighter will automatically pop out, ready for use.

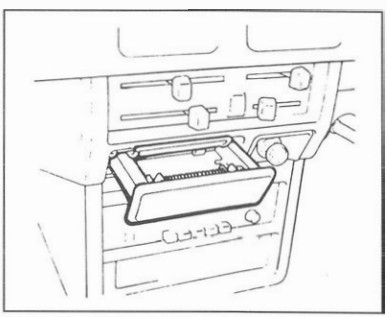


Ashtray, front

Ashtrays should only be used for ash, not for combustible rubbish.

To empty, open the ashtray, depress the top plate and remove the ash container.

To install, insert container and push it fully in.



Glovebox

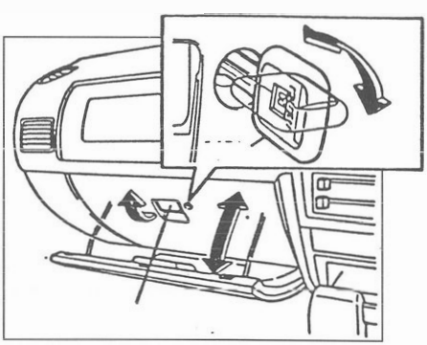
The glovebox is provided on the passenger side of the instrument panel.

The glovebox can be opened by pulling the handle. Push the lid shut to close.

To lock, turn the key clockwise, to unlock, turn the key anti-clockwise to the vertical position.

To unlock and open at the same time, turn the key anti-clockwise, past the vertical position.

The key must be vertical in thc lock in order to withdraw the key and leave the glovebox unlocked.



BONNET RELEASE, RADIO

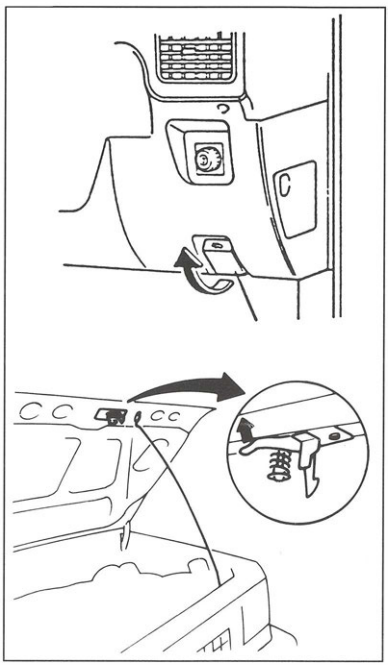
Bonnet

From inside the vehicle, pull the lever (under the driver's side of the dash board) towards you.

This allows the bonnet to release but is prevented from opening by the safety catch. To open completely, reach in under the centre of the bonnet and move safety catch upwards. Hold in this position and raise the bonnet.

To hold the bonnet in the open position, insert the support rod into the slot provided.

Before closing, return the support rod to its clip in the radiator grille and lower the bonnet down and push firmly back into place. After closing check that the bonnet has securely locked down.



Radio

Refer to the operating instruction supplement in your glovebox for all information relating to the operation of the radio/cassette in your vehicle.

Important cassette care note

After repeated playing, residue from the tape surface and dust from surroundings builds up on the tape head and tape handling surfaces. This is first noticed as lack of treble and a muffled sound.

To assure good quality sound, reduce dropout and have trouble free operation, a good quality cassette head cleaning tape should be used every month or two, depending on the amount of use.

Notes

CHAPTER 2

Locks

Page

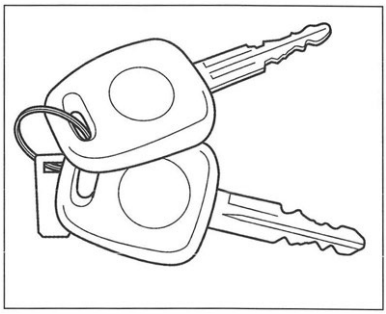
2-2 Keys
2-2 Door locks
2-2 Glovebox lock
2-3 Electric locks
2-3 Child proof locks

KEYS & LOCKS

Keys

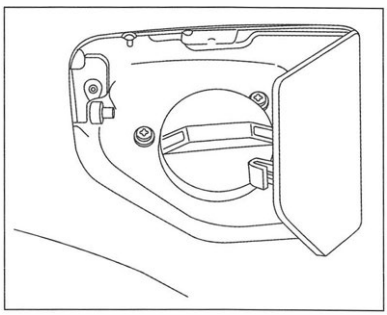
The code number is stamped on the key. Record the key number and keep the number in a safe place - NOT IN THE VEHICLE.

In the event of the original keys being lost a duplicate can be made by your Holden Dealer, using your key code number.



Fuel tank filler door

Refer Chapter 5



Glovebox

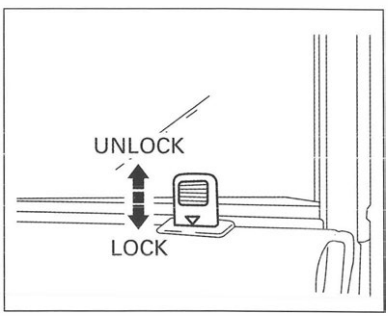
Refer Chapter 1.

Door locks

Doors are unlocked when the lock button is up and locked when the lock button is down.

Doors may be locked behind you by depressing the lock button when the door is open then shutting the door while the door handle is pulled outwards.

In addition, front doors may can be locked or unlocked from outside the vehicle with the ignition key. Turn the key towards the front of the vehicle to lock, towards the rear to the vehicle to unlock.



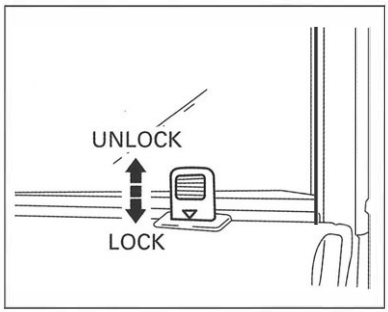
KEYS & LOCKS

Electric (if fitted)

All doors will unlock and lock simultaneously when the driver's front door is locked or unlocked with the key.

All doors will lock and unlock when the driver's snib lock button is used.

Using the passenger's snib lock button will not affect the other doors.



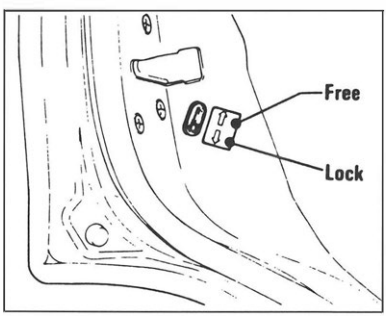
Child proof (if fitted)

This added safety is built into the two rear passenger doors. To operate, push the lever down as far as it will go and close the door. The door cannot be opened from the inside, regardless of the lock button position.

The locks are provided on the rear edge of rear doors, accessible when the door is open.

To disengage, open the door from the outside and push the lever up as far as it will go.

CAUTION: For safety, you should check that the lock is operating correctly by attempting to open the door from the inside after the lock has been set.



CHAPTER 3

Body Features

Page

3-2 Seat adjustment
3-3 Seat belts
3-5 Crew cab child seat anchors
3-6 Mirrors
3-6 Tilt steering
3-7 Windows
3-8 Interior light
3-8 Antenna

SEAT ADJUSTMENT

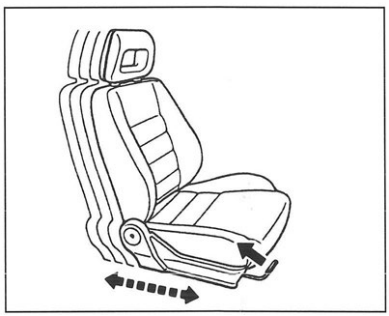
Driver's seat

Pull up the lever (located under the front of the seat) and then move the seat forward or backward, as required.

After adjusting the seat position, try to move the seat forward and backward to be sure the seat adjusters have been latched.

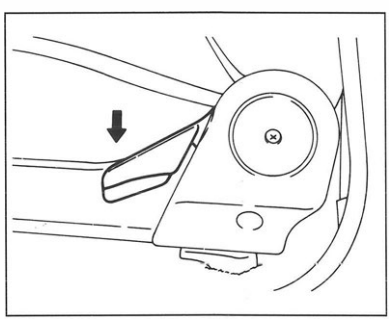
Do not adjust the seat while the vehicle is moving.

Some models will also have a similar adjustment for the passenger seat.



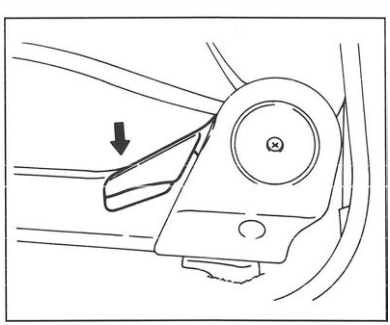
Back inclination (if fitted)

Inclination of the back of the seat can be adjusted by raising the lever on the door side of the seat



Walk-in system (space cabs)

The passenger side seatback inclines down and the whole seat assembly slide all the forward as the reclining lever is pulled up.



SEAT BELTS

Retractor Belts

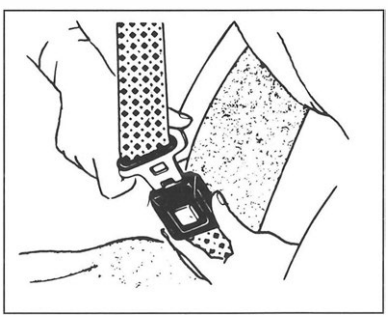
To put on a retractor seat belt, pull the metal tongue across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". After fastening, settle the belt by running your hand under the belt starting at the hip, go across to the buckle, then up under the sash. Any extra belt length will retract automatically.

The lap section should be worn as low as possible on your hips, not on your waist. Make sure the sash and lap sections of the seat belt are free from twists and are fitting firmly.

The emergency-locking retractor belt allows you to move freely while the vehicle is travelling normally. The belt will lock immediately on fast braking, impact with a solid object or any quick movement by the wearer.

To release the belt, press the release button on the buckle and allow the belt to retract. Check that it fully retracts without twisting or turning.

Non-retractor belts



To adjust: Settle yourself comfortable. Bring the tongue adjuster across your body and clip it into the buckle. When the metal tongue has locked safely into place you will hear a "click". Make sure the belt is fitting firmly across the lower hip area and not across your waist.

To shorten: Tilt the tongue adjuster and pull the belt through the belt adjuster.

To lengthen: Tilt the tongue adjuster and pull the belt from just below the finger grip bar. To release the belt, press the release button on the buckle.

Maintenance of seat belts

Check seat belts regularly. Replace the belts if they become frayed or damaged. The buckle and retractor mechanism operations should also be checked. Your Holden Dealer will regularly do these things as part of the scheduled maintenance plan, refer Chapter 12.

Seat belts must be replaced if they have been in use during a severe impact - even if there is no obvious damage.

Clean belts only with a solution of mild soap and lukewarm water. Never use bleach.

SEAT BELTS

Australian law requires that the driver and all passengers be properly restrained at all times with the seat belts provided in the vehicle. Failure to do so could increase the chance of injury and/or the severity of injury in accidents.

Australian Design Rules: WARNING

Seat belts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis, or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided.

Seat belts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.

Care should be taken to avoid contamination of webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.

It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.

Belts should not be worn with straps twisted.

Each seat belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.

No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.

The positioning of the tongue restrictor must never interfere with or stop the belt from fully retracting.

Infant and child restraints

Children should be restrained at all times when travelling in a vehicle.

Up to the age of about 6 months, babies should be carried in a rearward-facing infant capsule. Between the ages of 6 and 12 months, they should be in a rearward-facing child seat. Between the ages of 12 months and 3 years, children can be carried in a forward facing infant seat. When they outgrow this type of seat (approximately 3 years old depending on their height and weight) children can be seated in an approved booster seat, restrained by a lap/sash safety belt. By the age of approximately 6 years, when they weigh more than 32 kilograms and are over 100 cm tall, children can graduate to a lap/sash safety belt alone.

Always ensure that the seat belt fits firmly around the infant restraint.

If a child can't see out of the window, don't raise him/her by means of an ordinary cushion. It will not stay in place in a crash and the child can slip out of the straps and become entangled.

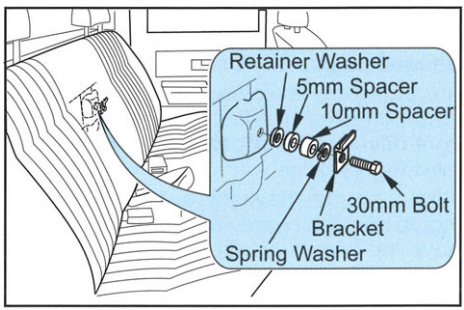
CHILD RESTRAINTS

Crew cab models are fitted with 2 child anchor locations, on the panel behind the rear seats (fold the seat forward to access). In addition, the location on the passenger's side of the vehicle is fitted with a child anchor fitting.

The illustration shows how to install additional fittings to the other anchor location, which can be purchased from your Holden Dealer.

These illustrations are only applicable to child restraints approved to Australian Standard AS 1754-1991 (and subsequent amendments). These illustrations are *not* applicable to earlier child restraints, as these restraints may not attach securely to this type of anchor fitting.

After installing a new anchor fitting (with the required spacers and washers), ensure that the bolt is securely tightened between 15 and 25 Newton metres. Check with your Holden Dealer if unsure.



WARNING: Child restraint anchorages are designed to withstand only those loads set out in Australian Standard AS 1754-1991 (and subsequent amendments). Under no circumstances are they to be used for adult seat belts or harnesses or for attaching other items or equipment to the vehicle.

WARNING: NEVER install a rear facing child restraint in the front seat of a vehicle with a passenger's air bag. The child could be seriously injured if the passenger's air bag inflates, as the child's head would be very close to the inflating air bag. Where legally allowable, you may install a forward-facing child restraint in the front seat but **always** move the passenger's seat as far back as it will go.

It is always better to install a child restraint in the rear seat.

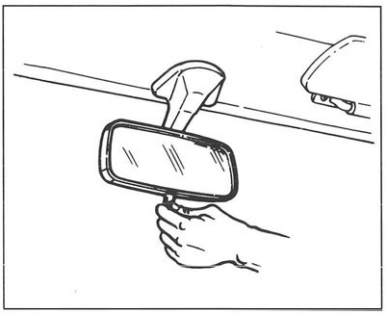
MIRRORS AND TILT STEERING

Inside rear view mirror

Move the mirror right/left or up/down to gain the required angle.

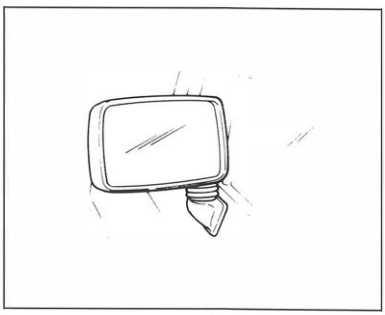
The anti-glare lever on the lower edge of the mirror enables a reflector to be used during night driving. This reduces glare at night from following vehicles.

During normal daylight operation, the lever should be set forward. To reduce glare at night, move the lever towards you.



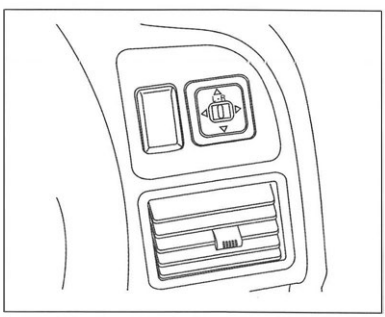
Outside rear view mirror(s)

Adjust the outside rear view mirror so you can just see the side of your vehicle in the side of the mirror. This helps you determine your relation to objects seen in the mirror. When selecting the most suitable angle ensure that the driver's head is in the normal position for driving, then adjust the mirror angle to suit.



Electric mirrors (if fitted)

Move the toggle switch (in the centre of the mirror switch) to select either left or right mirror. Then use the outside of the switch to adjust the selected mirror (up, down, left or right).

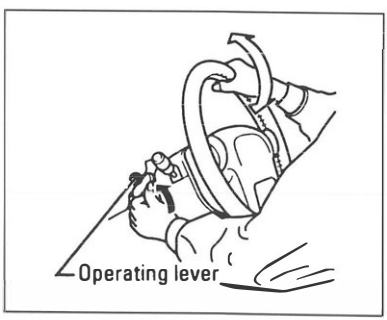


Tilt steering (if fitted)

The tilt steering lever is located on the left hand side of the steering column and has 6 adjustment positions. To adjust, lift the lever to unlock the steering column. Move the wheel as required up or down and lock the lever firmly. Try moving the wheel up and down to ensure it is securely locked.

When in position, return the lock lever into place. "Jiggle" the steering wheel to ensure it has locked securely before driving.

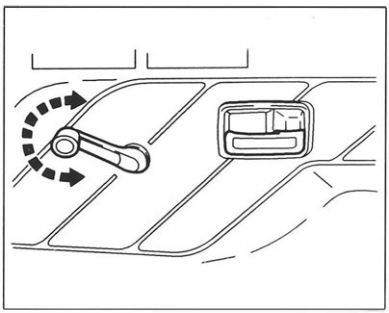
CAUTION: As with all the other driver position controls, do not attempt to adjust the steering wheel while driving.



WINDOWS

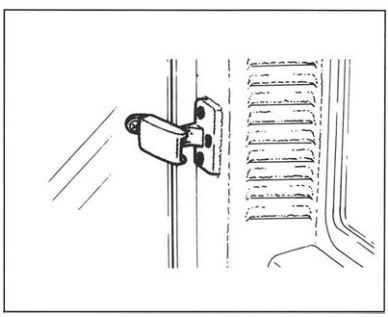
Window regulator handle

Turn the regulator handle to raise or lower the door windows.



Quarter windows (space cabs)

The quarter window on each side can be opened and closed by operating the catch handle.



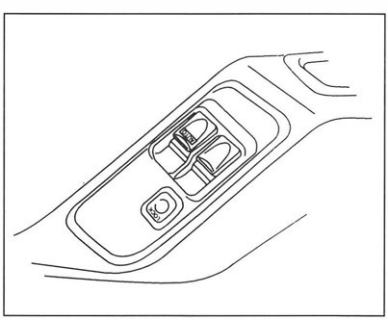
Power windows (if fitted)

The switches for the windows are operational when the ignition is ON.

To open the driver's window, press and release the switch; the window will fully open.

To open a passenger's window however, push down on the switch and hold it down until the window reaches the desired position.

To close a widow, pull back on the switch until the window reaches the desired position.



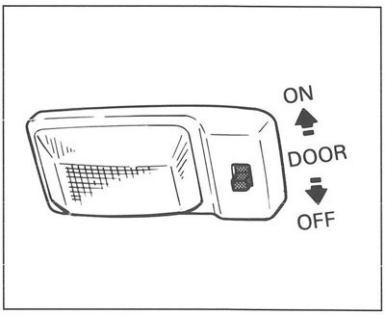
INTERIOR LIGHTS, ANTENNA

Interior (dome) light

DOOR: The light turns on when the door is opened.

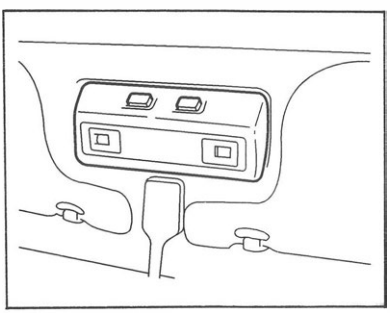
ON: The light turns on regardless of the door position.

OFF: The light remains off.



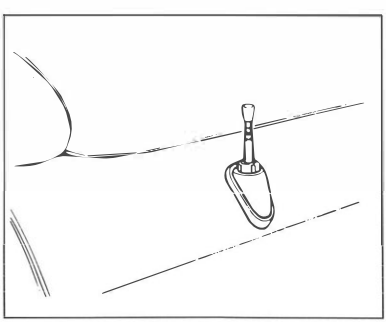
Map light (if fitted)

Push the switches to turn the map lights on and off.



Antenna

Pull out the antenna to gain sensitivity.



CHAPTER 4

Driving

Page

4-2 Safety
4-3 Petrol engine starting
4-4 Diesel engine starting
4-5 Driving precautions
4-6 Manual transmission
4-8 Automatic transmission
4-10 Four wheel drive
4-12 Running-in

SAFETY

Before entering the vehicle

1. Check that windows, mirrors and lights are clean.
2. Visually check tyre inflation (check with a pressure gauge each week).
3. If you intend to reverse, check that the area behind your vehicle is clear.

Before driving off

1. Be sure that all doors are closed and secured.
2. Position your seat for comfortable driving.
3. Adjust rear vision mirrors.
4. FASTEN SEAT BELTS.
5. Check that all the warning indicators light up when you turn the key to start the engine, refer Chapter 1.

Parking

1. Apply the park brake.
2. Place manual transmissions in REVERSE or FIRST gear.
3. Switch off all exterior lights.
3. Shut all windows.
4. Turn ignition key to LOCK and remove the key.
5. Lock all doors.

CAUTION:

Be careful where you park or drive. As with any vehicle, do not park or operate this vehicle in areas where combustible materials such as dry grass or leaves can come in contact with a hot exhaust system.

Never leave the engine running in a closed garage or underground car park.

PETROL ENGINE STARTING

1. Apply the park brake firmly and release only after you have started the engine and ready to drive off.

2. MANUAL: Depress the clutch pedal fully and move the gear lever to Neutral position. The clutch pedal can now be released.
   AUTOMATIC (if fitted): Move the shift lever to P (Park) or N (Neutral) position. The engine will not start if it is in any other position. As a safety precaution, you should have your foot on the brake pedal in order to shift the transmission lever out of the Park position.

3. Start the engine as outlined below.
   For cold or hot starting the procedure is the same. Do not touch the accelerator pedal. Simply turn the key to the START position and release when the engine starts.
   If the engine does not start in 10 seconds, wait 15 seconds to let the starter motor cool down. Then turn the key to START with the accelerator pedal pushed completely down to the floor for a maximum of 10 seconds. If the engine still does not start, release the key and pedal. Wait another 15 seconds and then repeat the entire procedure. If the engine still fails to start, contact your Holden Dealer.

PETROL ENGINE CAUTION: When trying to start the engine, do not hold the key in the START position for extended time, for if unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire.

NOTE: You should not subject the engine to high load conditions such as full throttle acceleration or high speeds until it has completely warmed up.

DIESEL ENGINE STARTING

Glow plug indicator light

Your diesel engine has a special starting system. Small heating elements, called "glow plugs" warm part of the engine for improved starting.

Turning the starter key to the "ON" position starts the system and turns on the indicator light. This indicator light is located on the instrument panel, refer Chapter 1.

When the glow plugs have heated the engine enough for it to start (2 to 7 seconds when the engine is cold), the indicator light will go out - the engine is now ready to be started.

Starting

Turn the ignition key to the "ON" position and check to see that the glow plug indicator light has turned on. As soon as the glow indicator light has gone off, fully depress the accelerator pedal once and release. Depress the clutch pedal.

Crank the engine by turning the ignition key to the "START" position. Release the key when the engine has started. It will return to the "ON" position.

If necessary to achieve a smooth idle, turn the idling control button clockwise. Remember to turn it fully anti-clockwise when the engine has warmed up (as indicated by the coolant temperature gauge).

NOTE: Do not keep cranking the engine for more than 30 seconds if the engine fails to start. Wait for 30 seconds before trying again.

Turbo Operating Precaution

ENGINE STARTING

Do not operate the engine above idle before normal engine oil pressure has been established (such as applying full throttle immediately upon initial start-up). This causes the turbocharger to operate at excessive speed before the bearings receive adequate lubrication. Operation of the turbocharger for a period as short as 5 seconds without sufficient oil can cause bearing failure.

DRIVING PRECAUTIONS

Brakes

- Power assisted brakes, which are fitted to your vehicle, utilise vacuum from the engine when it is running. Never let the vehicle run down steep grades without the engine running. Never coast with the engine switched off.
- A decrease in driving, cornering and braking traction occurs when water, snow, ice, gravel or other materials are on the road surface. Driving practices and vehicle speed should be adjusted to the road conditions.
- Driving through water may affect performance. Applying the brakes lightly will indicate whether they have been affected. To dry them quickly, lightly apply the brakes while maintaining a slow forward speed with an assured clear distance ahead until brake performance returns to normal.
- Brake pedal travel should not be obstructed by ill-fitting floor mats or any other material under the pedal which causes interference with normal pedal movement.
- Your seat should be positioned so that you can push the brake pedal satisfactorily under all braking conditions.

Power steering (if fitted)

- Power assisted steering, which is fitted to your vehicle, has been designed to reduce steering effort. It uses hydraulic pressure to lighten steering loads and is designed so that "road feel" is retained. Care should be taken not to hold a turning force on the steering wheel when stationary (i.e. when waiting before turning a corner, etc.) as this creates unnecessary high operating pressures within the system.
- If the power steering is rendered ineffective because the engine has stalled, the drive belt broken or if the pump reservoir is empty of fluid, the vehicle can still be steered. However, due to the much greater effort required to steer, it is recommended that you have the problem fixed promptly.

Water crossing

Whenever driving across a shallow river or deep puddle, extreme care must be exercised or water may enter the engine air intake causing serious engine damage.

To prevent water being forced through the grille into the engine compartment, tie a sheet of canvas or some other suitable material to the underside of the front bumper bar and wrap it over the bumper, grille and top of the bonnet with a tie back to the door mirrors.

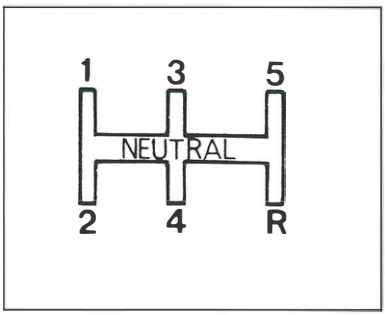
Remember that steady speed and constant traction are necessary for successful water crossing. When the crossing is completed, remove the canvas.

After deep water crossing, check to ensure that no water has entered and mixed with the oil of the following components:

- engine
- transmission
- front and rear differential

MANUAL TRANSMISSION

This system has 5 fully synchronised forward gears and a reverse gear. The shift pattern illustrated, is also found on the end of the gear shift lever.



Never attempt to engage "Reverse" gear until the vehicle has completely stopped. A slight pause between depressing the clutch pedal and moving into "Reverse" gear is desirable to allow all the rotating components to stop and avoid gear crashing.

Operating notes

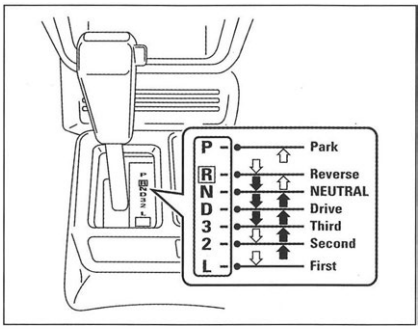
- When shifting from one gear to another, be sure to depress the clutch pedal fully to avoid clashing and possible chipping the transmission gears.
- Shift the gear with a moderate effort to allow time for the transmission synchronizers to work properly.
- Whenever "Reverse" is selected with the ignition on, the reversing lights will operate.
- Do not drive with your foot resting on the clutch pedal as damage to the clutch may result.
- When stopped on an incline do not hold the vehicle by slipping the clutch. Use the park brake or brake pedal.
- When climbing steep grades, change down to a lower gear before the engine starts to labour. To maintain safe speeds on a steep downgrade and to reduce brake wear and overheating, shift into a lower gear before starting the decent.
- Do not over speed the engine when shifting down to the next lowest gear.

AUTOMATIC TRANSMISSION

Depress the square button on the right side of the T-bar handle when shifting to R or P and when shifting from 3(petrol engine) or D(diesel engine) to 2 to L, as indicated by the white arrow. You may shift without depressing the button into any positions indicated by the black arrow.

NOTE: The engine will not start unless the selector is in P (park) or N (neutral).

To prevent the vehicle 'creeping' you should always have your foot on the brake pedal when shifting out of Park.

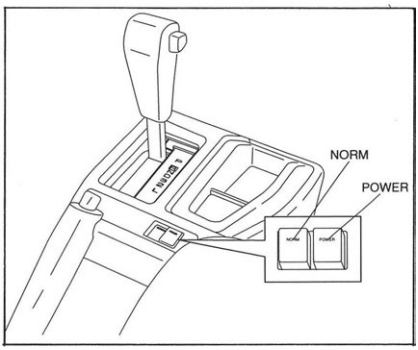


Power/Normal drive

The two buttons marked POWER and NORM control the two shift patterns available with your automatic transmission: POWER and NORMAL. When the POWER button is pressed in, the power light is illuminated and the transmission is operating in the power drive mode. When neither button is pressed in (and no light is illuminated) the NORMAL pattern is selected.

NORMAL drive is the most effective pattern for normal or freeway driving and allows for maximum fuel efficiency.

The POWER drive is recommended when overtaking and gives acceleration, especially in hilly areas or when towing.



If CHECK TRANS warning light flashing

If the light flashes it means that the computer controlling the transmission has found a problem. The vehicle can still be driven when the light is flashing but should be checked by your Holden Dealer as soon as possible.

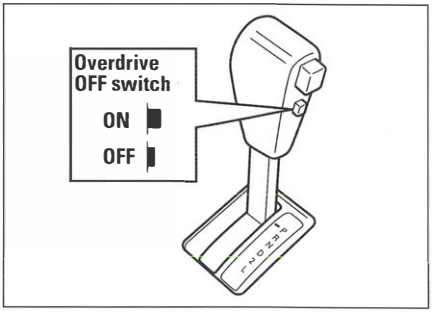
Depending on the nature of the problem, the transmission may still be able to change gears without your assistance. However, in some cases the transmission's computer may put the transmission into 'safety mode'. In safety mode the transmission may not shift automatically and you must then shift the T-Bar lever to change gears at the following recommended speeds.

- High speed driving (over 80 km/h) with petrol engine: select "3" or "D".
- High speed driving (over 80 km/h) with diesel engine: select "D".
- Moderate speed driving (under 80 km/h but over 25 km/h): select "2".
- Starting from a stop, driving up or down a steep hill, or for engine braking when towing a trailer downhill: select "L".

AUTOMATIC TRANSMISSION cont.

Diesel engine: overdrive switch

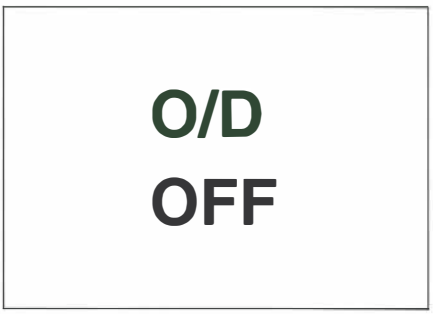
The automatic transmission with the diesel engine is a 3-speed automatic transmission with a high ratio 4-speed gear (overdrive), which can be turned off and on with the switch on the right side of the transmission T-bar, as shown in the illustration.



Turning overdrive OFF

When the switch is pressed in, overdrive is OFF and the "O/D OFF" light will show at the bottom of the transmission T-bar selector position, as shown in the illustration.

The transmission will act as a 3-speed transmission. This can be useful when engine braking is required, for example, when driving down long slopes, or when driving in hilly areas.



Turning overdrive ON

Press the button again so that the button is in the out position. The "O/D OFF" light will go out and the transmission will act as a 4-speed, which is more fuel efficient, quieter and smoother.

Overdrive should be turned on for most normal driving conditions.

AUTOMATIC TRANSMISSION cont.

P (park)	This stops the rear wheels from turning and should be selected (together with the park brake) when leaving the vehicle. Never select P until your vehicle is fully stopped. The P position is one of only 2 positions (the other is N) in which your engine may be started.
R (reverse)	Never select R until your vehicle is fully stopped. Reversing light will operate when R is selected and the ignition is on. After reversing, make sure the vehicle has fully stopped before proceeding forward again.
N (neutral)	This is the out-of-gear position. You may then restart a stalled engine while the vehicle is still moving or stopped.
D (drive)	**Petrol engine**: This is the normal forward driving position and allows the transmission to choose the appropriate gear (1st through to 4th) for the driving conditions and optimum fuel economy. **Diesel engine**: This is the normal forward driving position and allows the transmission to choose the appropriate gear for the driving conditions. When Overdrive is switched on, 1st through to 4th will be used; when overdrive is switched off, 1st through to 3rd will be used.
3 (third) Petrol engine only	This position allows the transmission to shift between 1st, 2nd and 3rd gear as conditions require. 4th gear is excluded. Use this position when going down a long hill or on a road with many sharp curves. Shift back into the "D" position to return to normal driving.
2 (second)	This position allows the transmission to shift between 1st and 2nd gear. Use this position when going down a moderate gradient where you want to slow down a little without using the brake. Shift back into the "D" position to return to normal driving.
L (low)	The transmission cannot shift out of 1st gear when in this position and should only be used when strong braking effect is needed on a very steep hill. The T-bar lever can be shifted back to "L" at any speed. However, the transmission will not actually enter 1st gear until vehicle speed is below 55 km/h (petrol engine), 40 km/h (diesel engine). Remember to shift back to "D" to resume normal driving.

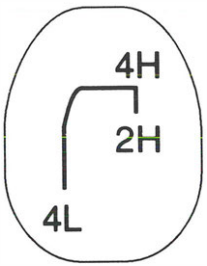
- Do not go from P or N to R or D with the accelerator pedal depressed.
- When driving down a long hill, reduce your speed and select a lower range. The engine will provide a braking effect. Remember if you ride the brakes, they may overheat, resulting in reduced performance. This is particularly important when towing.
- Be careful when accelerating, upshifting, downshifting or braking on a slippery surface. The abrupt change in engine speed, such as sudden acceleration or engine braking, could cause the drive wheels to spin or skid.
- Don't press the accelerator pedal with the brakes on in either L, 2, 3 (if fitted), D or R. This will overheat the transmission.
- Don't use the accelerator pedal to hold the car on a slope. Use the brakes.
- Don't ever coast the vehicle in N - this lessens your control and the engine braking power.
- Always slow down in gusty crosswinds.
- Refer Chapter 7 for checking automatic transmission fluid level.

4 WHEEL DRIVE WITH MANUAL LOCKING HUBS (if fitted)

4 Wheel drive/2 wheel drive selection is made by both transfer lever position (from inside the vehicle) and front (left and right) wheel hub position. That means that the vehicle will not operate in the 4 wheel range until the wheel hubs have been locked - even if the transfer lever is in the 4L or 4H position.

Transfer lever

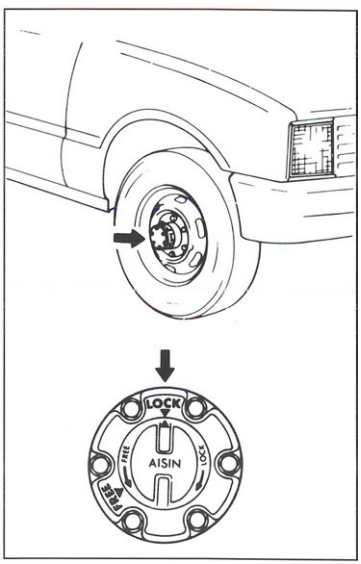
2H: Rear wheel drive, high range
4H: Four wheel drive, high range
4L: Four wheel drive, low range
When the transfer lever is in 4H or 4L mode the indicator light on the instrument panel will glow.



To select 4 wheel drive

1. Stop the vehicle.
2. Shift the transfer lever to 4H or 4L.
3. Set both left and right wheel hubs to the "LOCK" position i.e. the arrow in the middle section of the hub lines up with the "LOCK" arrow.

If front hubs are already locked, 4WD can be selected at any speed up to 80 km/h.



To select 2 wheel drive

1. Stop the vehicle.
2. Shift the transfer lever to 2H.
3. Set both left and right front wheel hubs to the "FREE" position.

2WD can be selected at any speed but remember to unlock the wheel hubs when convenient.

To move between 4H and 4L

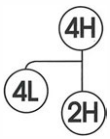
Automatic Transmission: If your vehicle has automatic transmission, stop the vehicle and move the transmission T-Bar to "N", before moving the 4WD transfer lever to 4L.
Manual Transmission: If your vehicle has manual transmission then you must STOP the vehicle, fully depress the clutch pedal and move the lever from 4H to 4L or 4L to 4H.

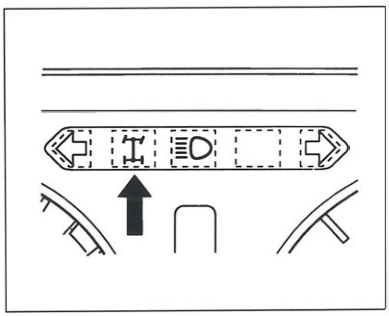
4 WHEEL DRIVE WITH SHIFT ON THE FLY (if fitted)

4 wheel drive/2 wheel drive selection is made by the transfer lever position inside the vehicle. Unlike a vehicle fitted with manual locking hubs (refer previous page), the driver stays inside the vehicle during the transfer.

Transfer lever

When the transfer lever is in 4H or 4L the indicator light on the instrument panel will glow.





2H: Two wheel drive, high range. Use this for normal driving on sealed roads. This position gives greater economy, quieter ride and least vehicle stress.

4H: Four wheel drive, high range. Use this for icy or snow covered roads and loose surface such as gravel. This position provides greater traction than 2WD. Top speed is limited to 80 km/h.

4L: Four wheel drive, low range. Use this for maximum power and traction. Use 4L for climbing or descending steep hills, off-road driving and hard pulling in sand, mud or deep snow.

The transfer lever can be moved from 2H to 4H and visa versa while the vehicle is moving. The steering wheel should be straight ahead at the time and vehicle speed must be under 100 km/h. However, never shift the transfer lever from 2H to 4H if the rear wheel are spinning on a snow-covered or slippery surface. In cold weather it may be difficult to smoothly shift the transfer lever. If this occurs, stop the vehicle and then move the lever.

When shifting between 4L to 4H and visa versa, **stop the vehicle**. When the vehicle is stationary, fully depress the clutch pedal (manual transmission) or move the transmission lever to Neutral (automatic transmission) before moving the 4WD transfer lever.

Do not use 4WD for normal driving on sealed roads. It will cause unnecessary noise, poor fuel consumption and stress 4WD components.

When shifting the transfer lever be sure to shift quickly and securely. Do not stop shift lever movement midway. Some noise is normal during shifting of the transfer control lever. If the transfer lever is not securely in gear (2H, 4H or 4L) driving force cannot be transmitted to the wheels. Driving with the transfer lever not securely in gear may cause damage to the transfer gear box.

The 4WD indicator light will normal go out when the transfer lever is in 2H. The light may not go out if the tyre pressure or wear is significantly different between the front and rear tyres. If it does not go out, for this or any reason, drive 2 or 3 metres straight ahead. If the light does not then go out or if the light does not come on when in 4WD mode, you should contact your Holden Dealer.

4 WHEEL DRIVE (if fitted) and RUNNING IN

MANUAL LOCKING HUB CAUTIONS:

- Never drive the vehicle with the front wheel hubs in the “FREE” position and the transfer lever in 4H or 4L above 5 km/h or 100 metres.
- Never LOCK one hub only - both sides must be either in the "LOCK" or "FREE" position.
- Vehicles should never be operated on hard surfaces or sealed roads for a distance above 1 kilometre in 4L or 4H with the hubs in the “LOCK” position.
- Vehicles should never be manoeuvred through tight turns on hard surfaces when in 4L or 4H with the hubs in the "LOCK" position. This will avoid damage to the drivetrain and/or driveline wind-up.
- To properly run-in front wheel drive axle components, drive the vehicle for the initial 300 km with the wheel hubs in the “LOCK” position.
- To lubricate the front wheel drive axle, the vehicle should be driven for at least 20 km every month in 2WD with the wheel hubs in the "LOCK" position. However, to reduce fuel consumption under normal driving conditions, the wheel hubs should be in the “FREE” position and the transfer lever in the 2H position.

"Running-in”

These days, there’s no need to follow the formal running-in schedule. However, by observing a few simple precautions during the first few hundred kilometres of driving you will greatly assist your vehicle’s future performance and economy.

For the first 500 kilometres, don’t exceed 90 km/h. Up to 1,500 kilometres avoid driving at any one speed - either slow or fast - for any length of time.

Include some higher speeds during this period. Always drive at moderate speed until the engine has completely warmed up.

For the first 500 kilometres heavy braking should be avoided, except in an emergency, since brake misuse during this period could impair future braking efficiency.

It is best to drive your new vehicle for 1,500 kilometres before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy off road towing should be attempted before 1,500 km.

CHAPTER 5

Fuel

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5-2 Carbon monoxide caution
5-3 Petrol filling
5-3 Diesel filling
5-3 Fuel Tank capacities
5-4 Emission Control
5-5 Reducing fuel consumption

PETROL

EXHAUST WARNING - CARBON MONOXIDE POISONING

Exhaust gases can produce carbon monoxide, a dangerous gas, which can cause unconsciousness and even death to both humans and animals.

You could inhale the gases if the exhaust system on your vehicle is faulty.

To protect against exhaust gases entering the vehicle, the exhaust system and body should be inspected:

- each time the vehicle is serviced

- whenever a change is noticed in the sound of the exhaust system

- whenever the exhaust system, underbody or rear of the vehicle is damaged.

Take the vehicle to your Holden Dealer if you think your vehicle needs inspecting for any of the above reasons.

DO NOT SIT (OR LEAVE CHILDREN OR PETS) IN A PARKED VEHICLE FOR ANY EXTENDED PERIOD OF TIME WITH THE ENGINE RUNNING. DO NOT RUN THE ENGINE IN AN ENCLOSED AREA (SUCH AS THE GARAGE) ANY LONGER THAN IS NEEDED TO MOVE THE VEHICLE.

Driving with the tailgate open is not recommended. If you *must* travel with the tailgate open, close all windows, ensure that the heater controls are set to outside (rather than re-circulate) with air directed to the face and the fan on the highest speed. Do not exceed 50 km/h unless necessary.

PETROL CAUTION:

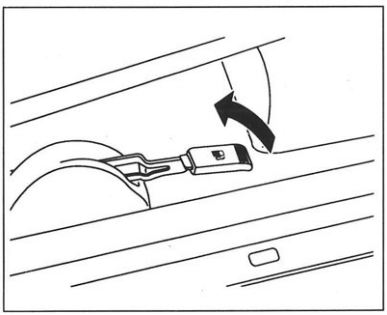
- Petrol is extremely flammable and highly explosive.
- Always turn off the engine and any mobile phones when refuelling.
- Do not smoke or allow open flames or sparks near the vehicle when refuelling.
- If petrol fumes are smelt while driving, the cause should be found and corrected without delay.

PETROL and DIESEL

To release the fuel filler door, pull up on the release lever from inside the vehicle, on the right of the driver's seat.

Remove the fuel cap by turning anti-clockwise.

To close, turn the cap clockwise until a clicking sound is heard three times and then push the fuel filler door shut.



Fuel tank capacity

63 litres: crew cab; 75 litres: space cab and L.W.B. single cab

Petrol engines

Use UNLEADED PETROL of 91 octane rating, or higher.

High octane unleaded petrol ("Premium" etc.) may be used, but is not required by your vehicle. The use of any other fuel will seriously damage the engine of your vehicle and may void your Warranty. Only clean petrol of good quality should be used.

Petrol tanks should always be filled at the intermediate or fast fill rate. Don't add any more petrol after the petrol filler first clicks off or petrol blows back - as this allows room for the petrol to expand inside the tank.

It is only permissible to "trickle fill" petrol tanks when the vehicle is to be driven for more than 50 km immediately after the tank is filled. However, this is not recommended on days over 30°C.

Wipe off any overflowing petrol immediately from the vehicle; spray or splash with water (close the fuel opening before spraying with water).

Diesel engines

Use a good quality diesel fuel of at least 47 cetane rating. Note, if the diesel fuel tank is run completely dry the fuel system must be "bled", refer Chapter 6.

Note for 4JH1-TC engines: do not use additives to the fuel for water draining etc.

PETROL - EMISSION CONTROL

Your vehicle is fitted with emission control systems which are designed to reduce the amount of hydrocarbons (HC), carbon monoxide (CO), and oxides of nitrogen (NOx) that are emitted from the engine and fuel system into the atmosphere. Hydrocarbons and oxides of nitrogen, when exposed to sunlight under certain conditions can contribute to smog. In addition, carbon monoxide is toxic when it becomes highly concentrated in the air.

The three major emission control systems fitted to your vehicle are:

1. **Evaporative Emission Control System**
   This system is designed to prevent the escape of fuel vapour from the fuel system and recycle them through the normal combustion process.
2. **Crankcase Emission Control System**
   This system is designed to prevent blow-by gases from escaping into the atmosphere and recycle them through the combustion process.
3. **Exhaust Emission Control System**
   The various components of this system operate collectively to limit HC, CO and NOx emissions in the exhaust gas. The exhaust Emission Control System is comprised of components including electronic control of spark, fuel and idle speed. In addition, Australian vehicles have a catalytic converter and closed loop mixture control system.

For detailed information on the operation, servicing and repair procedures for these systems, refer to your vehicle's service manual and/or the emission label inside the engine compartment (on the passenger side strut tower) of your vehicle.

Owner responsibility

Vehicles sold and serviced within Australia have been designed to comply with Australian Design Rules and State Regulation emission requirements.

The engine or exhaust system of the vehicle must NOT be modified in any way. Any change to the design may increase the emissions or otherwise defeat the intent of the regulations.

Any person who removes, modifies or hinders any part of the emission control system will be contravening regulations. It is also illegal to drive a vehicle modified in this way.

First drive

When the vehicle is driven for the first time, wax and oil on the exhaust system may evaporate, producing smoke-like emissions that should not be inhaled. Allow wax and oil to evaporate while the vehicle is in the open air.

Maintenance requirements

To ensure continuing compliance with the regulations you must maintain your vehicle's emission control system as per your vehicle's service manual, at the frequency shown in the Maintenance Schedule in chapter 12.

It is recommended that the necessary servicing be performed by an authorised Holden Dealer who has the specialised servicing equipment and trained personnel available to ensure that the adjustments and services specified are carried out.

REDUCING FUEL CONSUMPTION

Engine

Maintain the engine in peak mechanical condition by having it serviced regularly in accordance the Maintenance Schedule on Chapter 12. This will ensure items such as the spark plugs and air cleaner are maintained for minimum fuel usage and peak engine performance.

Tyre pressure

Keep the tyres at the recommended pressures. Under-inflated tyres create extra rolling resistance and wastes fuel, refer Chapter 7.

Incorrect tyre pressures can also cause uneven and premature tyre wear.

Wheel alignment

Maintain correct front wheel alignment. Incorrect alignment makes the front wheels drag, wastes fuel and causes uneven and premature tyre wear.

Warm ups and idling

Avoid long engine warm ups. They are unnecessary and waste fuel. An engine takes approximately five minutes to reach its efficient operating temperature and it does this most effectively when driving.

You should also avoid long engine idling. If your have to wait for more than a couple of minutes turn off the engine to conserve fuel.

Accelerating, driving and braking

Accelerate gently - avoid rapid starts, sudden bursts of speed and full throttle acceleration - they're certain fuel wasters.

Drive the vehicle at steady speeds where possible (after run-in). It is desirable to reach top gear as soon as possible, but under no circumstances should you force the engine to labour in top gear.

Riding the brake

Do not rest your foot on the brake pedal when you do not intend to brake, as this can overheat the brakes, increase brake pad wear, damage the brakes and waste fuel.

Air conditioning

Turn off the air conditioning, when not required. However, once every two weeks, with the engine running, switch the air conditioner on for 5 to 10 minutes, even in Winter, to lubricate seals.

CHAPTER 6

Emergencies

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6-2 Accident
6-3 Medical assistance
6-4 Flat tyre
6-7 Towing a disabled vehicle
6-7 Hazard warning flasher
6-8 Engine overheating
6-10 Flat battery
6-12 Air bags
6-14 Fuses
6-15 Bulb replacement
6-18 Draining diesel water separator
6-19 Bleeding diesel fuel system

Your new vehicle is covered for 3 years by 24 hour Roadside Assistance, refer Chapter 9.

ACCIDENTS

All drivers are advised to learn what to do at the scene of an accident, particularly where people are injured. Injured people can choke to death if their air passages are not cleared, they can bleed to death unless the bleeding is stopped, they may require mouth-to mouth resuscitation or may have to be moved, even though badly injured. It is important that you understand how to avoid further damaging an injured neck or back or other broken limbs. In all cases, ensure safety for rescuers, victims and bystanders.

The following notes may help.

Accident - being involved

Stop immediately and remember to turn off the engine and apply the park brake.

Remember that time is vital. Remain calm and alert. Think quickly and clearly.

Give all possible assistance to all injured persons (see following page).

Send for police and ambulance if anyone has been injured. Give information as accurately as possible: the exact location, the number of injured people and a brief report on the overall situation.

Perhaps take charge of the situation.

Warn all other traffic approaching the scene. Turn off ignition switches. Stop any smoking near spilt petrol. In darkness, try and light up the area to warn others, using a torch or headlights (do not use flammable items).

Clear the road of accident debris.

Exchange your name, address, vehicle registration, owner's name and address with the other parties involved in the accident.

If damage to property only has occurred, report the facts to the owner of the damaged property or to his/her representative, to any police present at the scene or to the nearest Police Station.

Try to note all important facts because such details may be important if needed later.

Accident - being a witness

If you witness a road accident or it becomes your task to stop and help:

- Keep in mind that an observant witness can prove most helpful. Some day you yourself might be very glad of help from a witness.
- DO NOT stop at the scene of an accident just to be a spectator. If other people are already in attendance and giving assistance, you should stop only if you can contribute assistance.
- Give what assistance you can to any injured persons (see following page).
- Follow most of the steps suggested above. Perhaps you may have to take charge of the accident situation.

ACCIDENTS

Part 3. Medical assistance

This information is basic first aid information which is intended as a guide only and may not be applicable in all situations. You should always defer to a trained medical officer or other person with first aid knowledge. Protective equipment, such as rubber gloves are recommended.

Keep calm and think clearly. Your experience may not be much but do your best.

- Look after the unconscious person first. Check airway, breathing and circulation. If no breathing, then check if air passages are clear, i.e. nose and mouth. Use your fingers to clear air passages if necessary. If the air way is clear then mouth-to-mouth resuscitation may be needed at once.
- You must be very careful when moving an injured person. It is best not to move at all, except if in danger, as serious and permanent damage can be done to an injured neck or back if not supported during movement. AVOID BENDING OR TWISTING A NECK OR BACK. KEEP THEM STRAIGHT. All injured limbs require support when an injured person has to be moved.

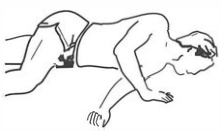
Unconscious people can choke.

Carefully turn to one side.

Tilt the head back slightly.

Wipe out the mouth with your finger to remove blood, vomit, broken teeth or dentures.

- Provided it is not dangerous to do so because of other injuries, an unconscious person will do best in the position illustrated here.



Lay the person on one side. If it will not aggravate any injuries then:

Bend the uppermost knee until the thigh is at right angle to the body.

Bend the uppermost arm and elbow so that the hand lies near the face.

Gently pull the underneath arm so that it rests straight on the ground free of any body weight.

- Try to stop bleeding by applying direct pressure, using your hand, or by pressing torn flesh together. Use any clean cloth available. Fold cloths to make pads. If necessary press one pad on top of another. Keep pressure around edges of a wound BUT NEVER USE A TOURNIQUET.
- Shock may be treated by reassurance, relieving pain, controlling any bleeding and keeping the injured person warm but not hot. It is best not to give any fluids and NEVER ALCOHOL.
- If the injured person is in danger and has to be moved, try and have three or four people help and concentrate on not bending or twisting the neck, spine and injured limbs. Keeping the neck and spine straight is most important.

FLAT TYRE

CAUTIONS:

- Use the jack only for lifting the vehicle when changing wheels.
- Never get beneath the vehicle when it is only supported by the jack.
- Do not start or run the engine while the vehicle is only supported by the jack.
- All passengers should be out of the vehicle when it is being jacked.
- Use the jack only at the designated lifting points. Use in other locations can damage the vehicle.
- The vehicle should only be jacked on hard, level surfaces.

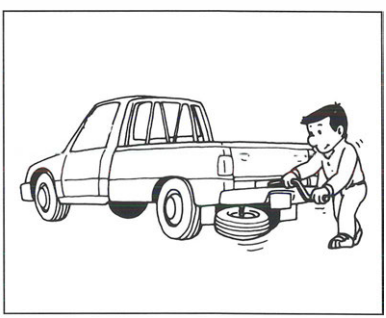
1. Park on a level surface, set the park brake firmly and turn on the hazard flasher.

2. Remove the ignition key and place automatic transmissions in PARK and manual transmissions in REVERSE gear.

3. Remove the spare wheel, which is secured to the rear part of the chassis frame with a chain.

   To lower the spare wheel, insert the jack handle into the hole in the rear face of the vehicle to engage the catch and turn the handle anti-clockwise.

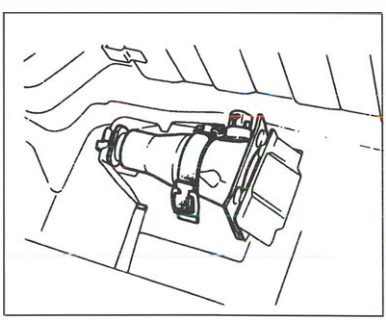
   To raise, turn the handle clockwise to "stop" and give an additional turn to securely hold the spare wheel in position.



4. Remove the tools

   Single cab models:

   The jack and wheel wrench are stored behind the rear of the seat. The jack handle is stored on the back panel. To access, tilt the back of the seat forward, using the lever attached to the back of the seat.



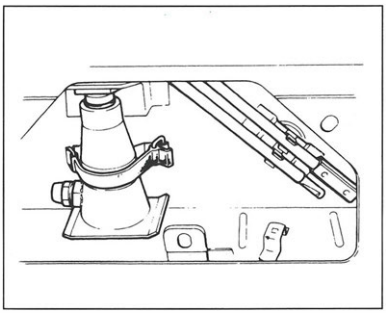
FLAT TYRE

Remove the tools

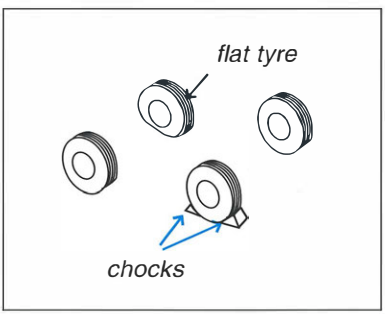
Crew cab and space cab models:

The jack, wheel wrench and (two piece) jack handle are stored in a compartment. This is located at the rear of the passenger's seat for space cabs. Crew cab models have the compartment located under the rear seat. To access, lift up the rear seat cushion, which is fastened by a lock catch under the centre of the seat.

Note: Sport model vehicles require an adapter (located in the tool bag) to be used with the wheel wrench.



5. Block the wheel diagonally opposite the jacking position with a solid object.



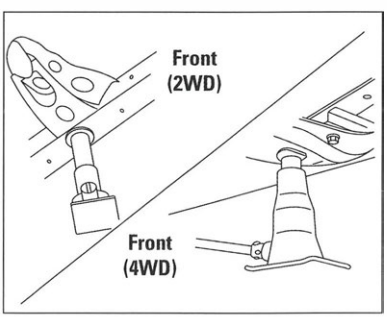
6. Loosen, but do not remove, wheel nuts by turning the wheel wrench anti-clockwise.

7. Place jack at recommended jacking point.

Front

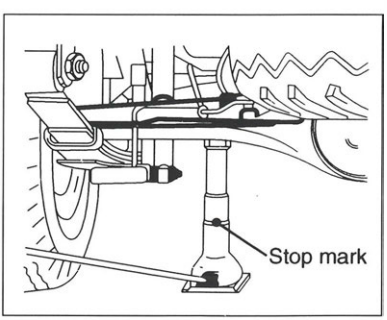
2WD (except 6VD1 engine): Concave bottom surface of the jack bracket.

4WD and 2WD 6VD1 engine: Bottom surface of the transmission crossmember with concave position.



Rear: under the rear axle housing near the wheel.

CAUTION: The jack is a 2-stage ram jack. Stop extending the jack when both rams are raised to the point where the stop mark on the rams becomes visible. Further extension could damage the jack, making it unstable.



FLAT TYRE

Ensure that the jack is not tilted and that the base is resting squarely on the ground.

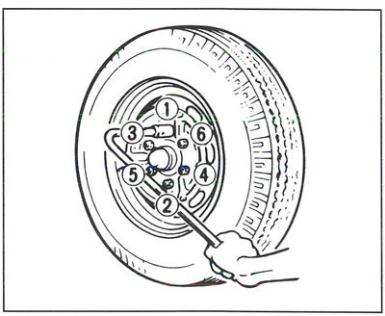
CAUTION:

Failure to position the jack as described could result in serious personal injury or vehicle damage caused by the vehicle slipping off the jack.

8. Raise the vehicle until the wheel is clear of the ground. Remove the wheel nuts and place (together) in a dry spot to avoid getting dirt in the threads.

9. Remove the wheel from the vehicle and change it over with the spare.

10. Replace centre cap (if so equipped), replace the wheels nuts and tighten by hand. Then, with the wheel wrench, lightly tighten in the sequence shown.



11. Lower the vehicle completely and remove the jack.

12. Fully tighten the wheel nuts with the wheel wrench in the sequence shown above.

13. Stow the jack, jack handle, wheel wrench and flat tyre in the rear of the vehicle, as shown on earlier in this Chapter.

14. Have the tyre repaired as soon as possible.

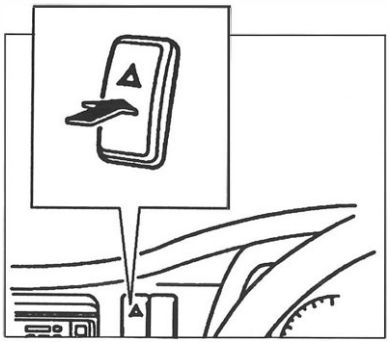
CAUTION:

As soon as possible after changing a wheel, you should have the wheel nuts tightened with a torque wrench to 120 Nm (87 ft.lbs).

Wheel nuts should be tightened evenly to the correct torque in the sequence shown as improperly tightened wheel nuts could eventually allow the wheel to come off while the vehicle is moving!

TOWING A DISABLED VEHICLE

Hazard warning flasher



Use the hazard warning flasher to warn other drivers any time your vehicle becomes a traffic hazard, day or night. Avoid stopping on the roadway if possible.

Turn the hazard warning flasher on or off by pushing the switch. The arrow symbols on the instrument panel will both flash simultaneously and all four external signal lights will flash continuously.

The hazard warning flasher will work with the ignition either off or on.

Towing a disabled vehicle

Proper lifting or towing equipment is necessary when lifting or towing the vehicle to prevent damage during any towing operation. State and Local laws must be followed. In an emergency, your vehicle may be towed on all four wheels in the following manner:

- Fit the towing equipment to one of the towing eyes on the front subframe below the front bumper. Do not attach to the bumpers or brackets.
- Place transmission in neutral position and release the park brake.
- Switch the ignition key to "ON" position. This will free the steering lock and allow the correct operation of windscreen wipers and turn signals.
- For the sake of safety and to prevent damage to the vehicle it is advisable to avoid jerky movements and to drive slowly during towing operations.
- Remember that power assist for brakes and power steering (where fitted) will not be available when the engine is off.
- To prevent the entry of exhaust fumes from the towing vehicle into the passenger compartment of your vehicle, close the windows and stop entry of air by moving heating and ventilation controls to "OFF" position.
- Vehicles fitted with automatic transmissions must not be towed for more than 55 kms or at over 30 km/h unless the propeller shaft is removed.
- Vehicles with damaged transmissions must not be towed unless the propeller shaft is removed.
- Only the driver should be in a towed vehicle.

ENGINE OVERHEATING

CAUTION: If the temperature gauge shows overheating, or if you suspect the engine of overheating, immediate action is required. Continued driving EVEN FOR A SHORT TIME could cause a fire, personal injury and/or severe vehicle damage.

If the coolant temperature gauge needle should move to the "H" position and remain there for more than 30 seconds, pull over to the side of the road. Leave the engine idling while you step out of the vehicle to check that the cooling fan is working.

CAUTION: Do not open the bonnet if you can see or hear steam or water escaping. Wait until no steam or water can be seen or heard before opening the bonnet.

If the fan is working and the temperature gauge is still climbing, then turn the ignition key to LOCK.

Look for leaks at the radiator hoses and connections, heater hoses and connections, radiator and water pump and fan belt. Take care when checking all these areas as they will probably still be hot.

If you find a major leak or find other problems that may have caused the engine to overheat, do not run the engine until these problems have been corrected.

If you do not find anything wrong then you should check the engine coolant level in the surge tank, refer chapter 7 for location.

CAUTION: Do not remove the cooling system cap if the engine and radiator are still hot. Scalding fluid and steam can be blown out under pressure which could cause serious burns.

ENGINE OVERHEATING

When the engine has cooled sufficiently cover the radiator cap with a thick cloth, and turn slowly anti-clockwise (without pressing down) until it reaches a "stop". This is the pressure relief stop, which will allow any remaining pressure (indicated by a hissing sound) to escape. Then press down on the radiator cap and continue turning it anti-clockwise until it can be removed.

With the radiator cap OFF, top up the surge tank if required (refer chapter 7 for location). Remember to ensure surge tank cap is secure after filling. Then, WHILE THE ENGINE IS IDLING, top up the radiator (if required) and replace the radiator cap.

If, after taking one or more of the actions above and once the temperature gauge no longer signals an overheat condition you can resume driving at a reduced speed. Return to normal driving after ten minutes if the temperature gauge does not again show an overheat condition.

If overheating occurs again you should have the vehicle attended to, as soon as possible, by a qualified mechanic.

NOTE: The engine may temporarily operate at high temperatures during more demanding operating conditions, especially on very hot days. These conditions include:

- climbing a long hill
- stopping immediately after high speed driving
- idling for long periods in traffic
- towing a heavily laden trailer or caravan.

You should avoid operating your vehicle for prolonged periods in any of the above circumstances if the temperature gauge indicates high engine coolant temperature.

Refer to Chapter 7 which gives maintenance instructions to help protect your cooling system from overheating.

FLAT BATTERY

CAUTION: DO NOT “push start” or “tow start” your vehicle. If unburnt fuel were to reach the catalytic converter and ignite, the converter could overheat or be destroyed by backfire. Therefore, if the battery is flat, you can “jump start”, but not "push start" your vehicle.

If your vehicle will not start due to a discharged battery, it can often be started by using energy from another battery - a procedure called "jump starting".

However, if after reading the following procedure you are still unsure about "jump starting" we strongly recommend for your safety and that of your vehicle that you leave the starting to a competent mechanic.

Jump starting

CAUTIONS:

Batteries produce explosive gases, contain corrosive acids and supply levels of electrical current high enough to cause burns. Therefore, to lessen the chance of personal injury when working near a battery:

- Do not expose the battery to open flames or sparks. Battery action generates hydrogen gas which is flammable and explosive.
- Do not smoke near a battery.
- Wear eye protection such as industrial safety glasses and avoid leaning over the battery whenever possible.
- Do not allow battery acid to contact eyes or skin. Flush any contacted area with water immediately. In case of eye contact you should get medical help. Battery acid will also damage paint and fabrics if not washed off immediately.
- Be sure any batteries that have filler caps are properly filled with fluid.
- Remove rings, metal watch bands and other metal jewellery before working around the battery.
- Carefully follow each step in the jump starting procedures.
- Never use a quick charger to start your engine.

FLAT BATTERY

1. The battery in your vehicle has a negative earth and a 12 volt rating. The battery in the other vehicle **MUST** also have a negative earth and a 12 volt rating.

2. Position the two vehicles so that they are NOT touching, apply the park brakes, put automatic transmission in PARK, manuals in NEUTRAL. Turn ignition to LOCK and switch off all lights and accessories in both vehicles, except the hazard warning flasher or any lights needed for the work area.

3. Attach one end of the RED jumper lead to the positive terminal of the booster battery (identified by a red colour, + or P) and the other end of the RED jumper lead to the positive terminal of the flat battery.

4. Attach one end of the BLACK jumper lead to the negative terminal of the booster battery (identified by a black colour, - or N) and the other end of the BLACK jumper lead to a solid stationary, metallic point on the engine of the vehicle with the flat battery. DO NOT CONNECT DIRECTLY TO NEGATIVE TERMINAL OF VEHICLE'S BATTERY.

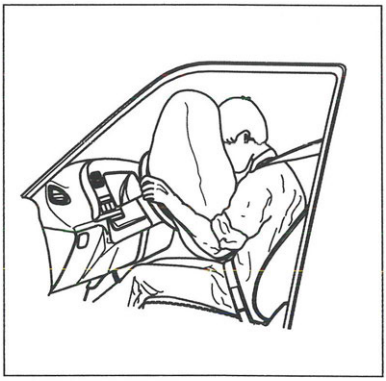
5. When making all connections take care that the jumper lead clamps do not touch each other. Also, ensure that jumper leads are not on or near pulleys, fans or other points that will move when the engine is started.

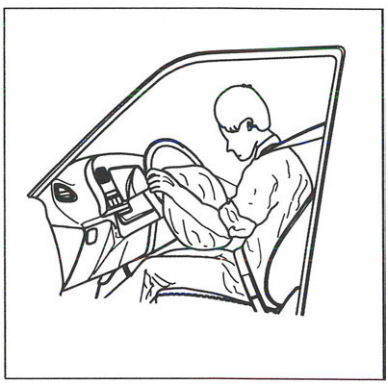
6. Start the engine in the vehicle with the good battery and run the engine at a moderate speed. Then start the engine with the flat battery. Attempts to start the engine should not last longer than 15 seconds and should have an interval of 1 minute between attempts.

7. After starting, allow both engines to idle for approx. 3 minutes with the leads still connected.

8. Leave the engine running while removing the jumper leads - in the exact reverse order they were installed. While removing each clamp, take care that it does not touch any other metal while the other end remains attached.

AIR BAGS (if fitted)





If your vehicle is fitted with an air bag system the word SRS (supplemental Restraint System) will be shown on the steering wheel. This means that 2 air bags are fitted, one for the driver and another for the front passenger, which will operate as a pair - they are triggered simultaneously.

If your vehicle is involved in a severe front end collision, the air bags will inflate, assisting the seat belts to restrain forward body movement.

An operating noise may be heard and a small amount of smoke-like gas will be released. The gas is harmless and does not indicate malfunction or fire.

The air bags will then deflate - the whole process *only taking a moment*.

The air bags assist but does not replace the seat belts. Air bags are not designed to inflate if the vehicle is hit from the rear or side or the vehicle overturns.

An impact caused by dropping into a large pothole or depression in the road may or may not inflate the air bags.

Seat belts (by law) should be worn by all passengers whenever the vehicle is moving.

Air bags inflate with great force. If you are too close to an inflating air bag it could seriously injure you. Seat belts help keep you in position for air bag inflation in a crash.

The AIR BAG light on the instrument panel will come on for a few seconds when the ignition is switched ON, then go out. This is to indicate that the air bags are operational. If the light *does not* blink when the ignition is switched to ON, or if it comes on when driving this may indicate that there is a fault in the air bag system and you should contact your Holden Dealer.

If the air bag system is handled incorrectly it can be set off for up to 15 seconds after the ignition has been turned off and the battery disconnected and cause injury. Be sure to follow proper service procedures, and make sure that the person performing the work for you is qualified to do so.

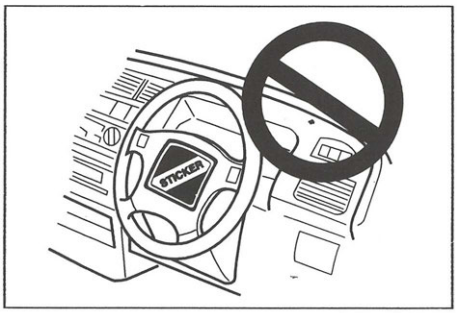
After use the whole air bag system will have to be replaced.

The system should also be inspected if the steering wheel or dash board area is scratched, cracked or damaged.

AIR BAGS (if fitted)

CAUTION:

The horn pad must not be covered with adhesive or any other material, as this may hinder air bag operation.



The dash board area must also be kept clear with nothing around this area, hanging from the sun visor or stuck to the dash.

Extensive design and testing has gone into the air bag system. It is extremely reliable and has little chance of accidental inflation. It should however, be treated with respect. Any careless or unskilled interference with the system could lead to its failure or to accidental inflation. It is recommended that any work to the electrical system, steering column, dash board area, steering wheel or air bag system be carried out by a Holden Dealer.

BULL BAR NOTE: Fitting a "bull bar", or making other modifications to the front of the car, may change the impact speed which would normally cause the air bag to inflate, reducing its effectiveness. Bull bars should not be fitted to cars operating in suburban areas, as they increase the risk of injury to a pedestrian in the event of a collision. Bull bars are only recommended for country/outback areas, where additional protection from straying animals is required. Please remember that defensive driving and limiting driving speed to the road conditions is always the best approach, particularly where road side signs indicate wildlife is abundant.

Passenger's side air bag and child restraints

CAUTION:

NEVER install a rear-facing child restraint in the front seat of vehicle with a passenger's side air bag. The child could be seriously injured if the passenger's side air bag inflates, as the child's head would be very close to the inflating air bag.

Where legally allowable, you may install a forward-facing child restraint in the front seat, but ALWAYS move the passenger seat as far back as it will go.

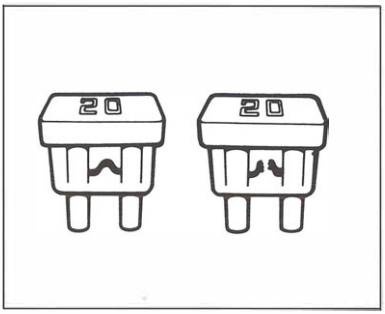
It is always better to install a child restraint in the rear seat.

FUSES

Fuses

The fuse panel is located under the instrument panel on the driver's side. Additional fuses will also be found in a fuse box within the engine compartment, also on the driver's side.

If a fuse has blown out check to locate the cause of trouble and give the necessary service attention before replacing the fuse. In the illustration, the fuse on the right shows a burnt out fuse.



CAUTION: When replacing a fuse be sure to use a fuse of the specified amperage, as indicated on the fuse box panel cover. Never install a wire or similar for replacement as it may cause a fire hazard to the vehicle. If a fuse blows twice in a row a fault is indicated. The cause should be promptly located and fixed.

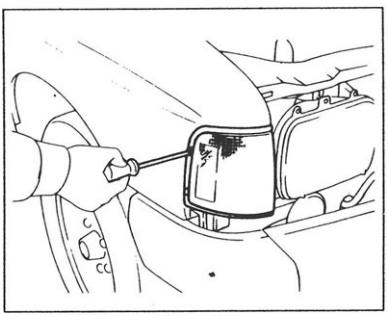
BULB REPLACEMENT

Headlights

Proper aiming of the headlights is most important to assure correct illumination of the highway without blinding other motorists. Headlight aiming or replacement should be carried out by your Holden Dealer. The halogen bulbs have a capacity of 60/55 watts.

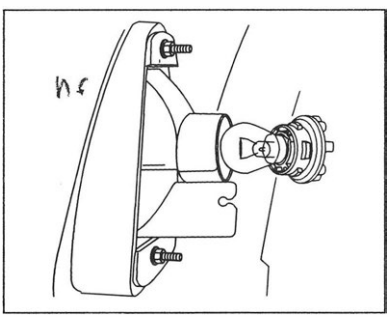
Clearance lights

Unscrew the screws securing the lens. The bulb has a capacity of 5 watts.



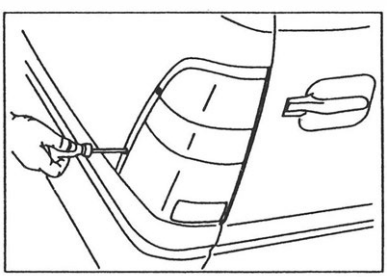
Front turn signal lights

Unscrew the socket (with bulb) behind the bumper. The bulbs have a capacity of 23 watts.



Rear combination lights.

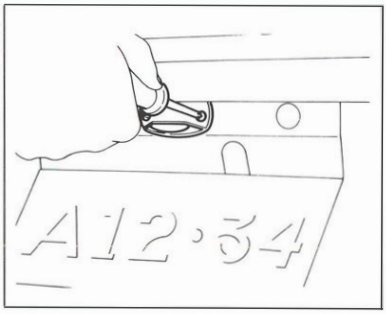
Unscrew the screws securing the lens. The bulbs have the following capacities: Turn signal lights: 21 watts Stop/tail: 21/5 watts Back-up lights: 21 watts



BULB REPLACEMENT

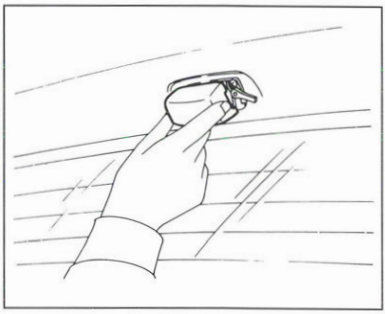
Licence plate lights

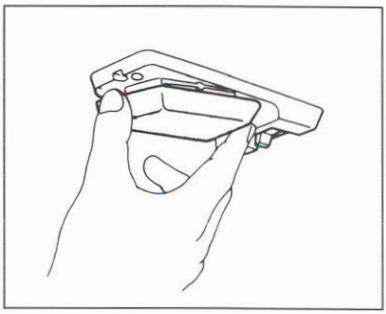
Unscrew the two screws securing the lens. The bulb has a capacity of 5 watts.



Interior lights

The lens can be pulled out by hand. The bulb has a capacity of 10w.

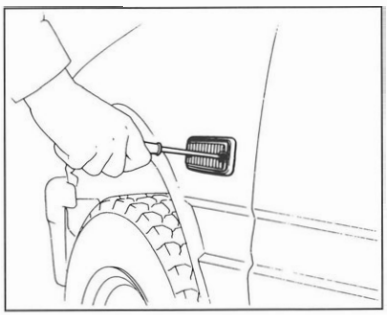




BULB REPLACEMENT

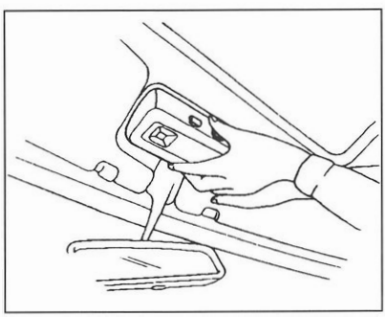
Side flasher lights

Unscrew the two screws securing the lens. The bulb has a capacity of 5 watts BULB REPLACEMENT



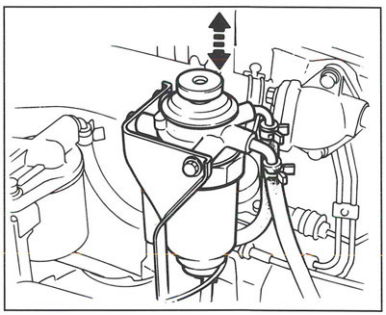
LS Reading light

Pull down the light assembly by hand. Remove the bulb by turning anti-clockwise. The bulb has a capacity of 5 watts.



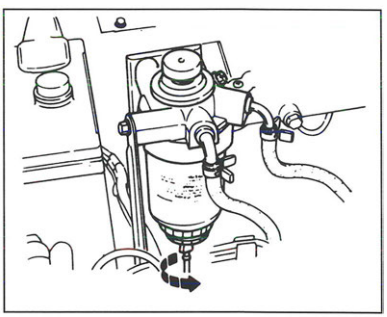
DRAINING WATER SEPARATOR (diesel)

The fuel filter has a sedimentor chamber for settling water separated from fuel. If the indicator glows on the instrument panel (refer Chapter 12) the water in the sedimentor chamber must be drained.



Open the bonnet and place a small container (approximately 0.2 litre capacity) at the end of the vinyl hose beneath the drain plug on the separator.

Loosen the drain plug (approximately five turns) and operate the manual pump up and down (about 10 times) until 0.1 litres of water has been drained.



After draining, securely tighten the drain plug and operate the manual pump up and down several times.

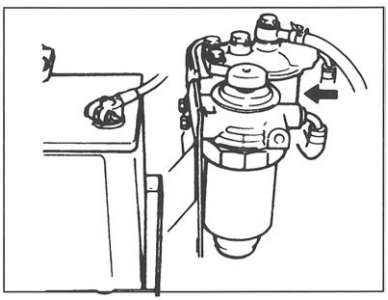
After starting the engine, check to see that no fuel leaks from the drain plug. Also check to see that the indicator light has turned off.

If the water separator requires frequent draining, have the fuel tank drained for removal of water at your Holden Dealer.

BLEEDING FUEL SYSTEM (diesel)

If the fuel tank has been emptied, the chance is that air might have entered the fuel system. With air in the fuel system, smooth flow of fuel into the engine is interrupted and to correct this, bleeding of the fuel system should be performed after refuelling.

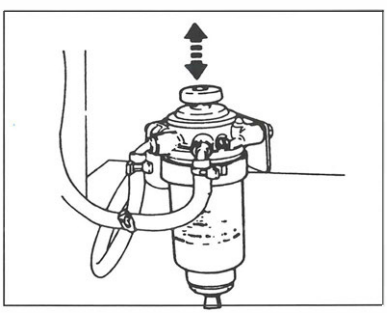
1 Operate the hand pump on the water separator to bleed air from the fuel system.



2. Start the engine with the starter switch when the bleeding has finished.

   With 4JH1TC engine, allow the engine to idle or 5 minutes.

3. If the engine does not start within ten seconds, repeat steps 1 and 2.



CHAPTER 7

Weekly checks

Page

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7-2 Service manuals
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7-7 Brake fluid level check
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7-9 Tyre air pressure
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7-11 Battery

MISCELLANEOUS CHECKS

As well as taking your vehicle to be serviced (refer Chapter 12) there are a few simple, weekly checks that the owner (or Nominee) is required to make. These are shown on the following pages.

CAUTION: Engine cooling fans can start working unexpectedly, even when the engine is not running. To avoid injury from the fan, make sure the ignition key is switched OFF, so that the fan cannot start operating.

CAUTION: Electronic ignition systems have a high ignition power. Do not touch the ignition system; this could be highly dangerous.

The following checks should also be regularly done to ensure safety of your vehicle.

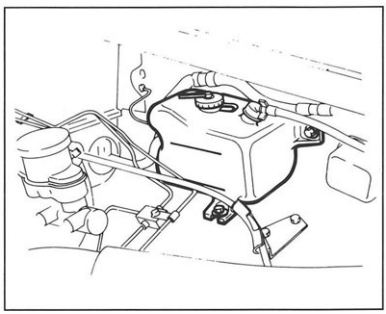
- that all exterior lights are working and that their appropriate interior indicators light up.
- mirrors and glass are clean and not scratched.
- the aim of water on the windscreen or tailgate and condition of the wipers.
- demister operates.
- horn works.
- condition and operation of all seat belts and check that buckles are clean and operating correctly. Remember that seat belts must never be worn twisted.

ENGINE COOLANT LEVEL

To check the coolant level

The level of coolant should be checked at weekly. This is simply a matter of looking at the level in the plastic container, called the surge tank.

When the engine is cold the coolant level should be at or above the minimum mark on the surge tank. After the vehicle has been driven and the engine is at normal operating temperature the level should be somewhere between half full and the maximum mark on the surge tank.



To add coolant

The LONG LIFE COOLANT in your vehicle conforms to Holden specification number HN 2217. This can be purchased as:

92141458 (1 litre)
92141457 (20 litres)

If the surge tank requires topping up, first pre-mix a solution of 50% LONG LIFE COOLANT and 50% water.

Ensure the ignition is switched OFF.

Undo the cap on the top of the surge tank, add the pre-mixed solution and secure the cap.

Failure to use the coolant meeting Holden's specification or maintaining the specified concentration may result in voiding your warranty.

In emergency situations, plain water may be used temporarily until the correct Holden long life coolant is obtained as soon as possible from the nearest Holden Dealer.

The specified long life coolant works in three ways: it contains special corrosion inhibitors, it helps the cooling system in hot weather by increasing the boiling point and it protects against freezing down to -30°C, provided the correct concentration is maintained.

If you regularly have to top up the cooling system you should see your Holden Dealer.

CAUTION:
Corrosion inhibitors and anti-freeze fluids are poisonous. Use extreme care when handling. If swallowed seek medical attention.

Refer to Chapter 6 if engine overheats.

ENGINE OIL LEVEL

To check the level

- The oil level should be checked weekly.
- Check the level when the oil is warm, such as when stopping for fuel.
- The vehicle must be on level ground.
- After switching off the engine, wait a few minutes for the oil to settle.

The level is checked from the dipstick.

Remove the dipstick and wipe it clean with a clean cloth or paper. Insert the dipstick firmly all the way down, pause for a second then withdraw the dipstick and look at the oil level on it. *Jiggling the dipstick may help while re-inserting it.*

The oil level should be between the two dimples, neither going above the MAX mark nor under the MIN mark. Remember to re-insert the dipstick firmly after taking the reading.

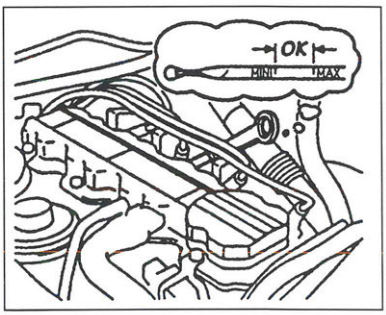
To add oil

Refer to page 8-2 for engine oil specifications.

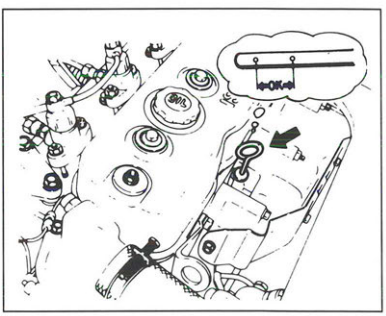
If oil needs to be added, remove the oil cap on top of the engine. Pour the required oil into the opening. Wait a few minutes for the oil to settle. Then check the oil level with the dipstick again. If still too low, add more oil. When correct, replace the cap and dipstick and clean any spilt oil.

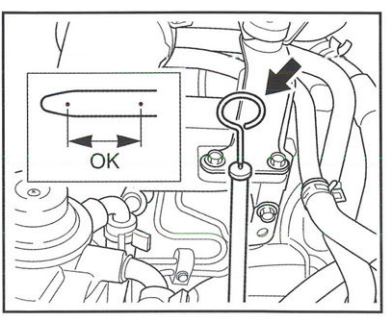
If you check the oil level when the oil is cold do not run the engine first, as the cold oil will not drain back into the oil pan fast enough to give an accurate reading.

NOTE: Non-detergent and other low quality oils are specifically not recommended. The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended. Their use will increase costs, may be detrimental to the operation of your car and may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended fluid to have affected the specifications or quality of your vehicle.

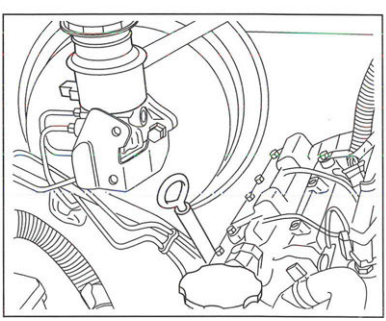


Petrol, C22NE


Diesel, 4JB1T



Diesel, 4JH1TC


Petrol, 6VD1

ENGINE OIL CONSUMPTION

Every internal combustion engine uses a certain amount of oil, especially when running-in. The engine is dependant on oil for lubricating the cylinder walls, pistons, rings and valve stems. A thin film of oil is left on the cylinder walls, some of which is carried into the combustion chamber and burnt during the combustion process. This also applies to the film of oil on the valve stems which is drawn into the combustion chamber and burnt.

There are several other factors that contribute to the rate of oil consumption in your engine: worn pistons, rings, valve stems and guides; the way in which the vehicle is operated; the quality and grade of oil; the oil level, and dilution of the oil.

• Operation of the vehicle

High speed driving and heavy towing increases engine temperature, which lowers oil viscosity, causing more oil to reach the combustion chamber and get burnt away.

• Quality and grade of oil

Oil viscosity is a significant factor in oil consumption. If you use an oil which is too "thin" (low viscosity) your oil consumption will increase. Use only the recommended grades of oil.

• Oil level

Maintaining a proper oil level is also an important factor in controlling oil consumption. An over full engine will splash oil onto the cylinder walls in quantities greater than the piston rings can control. This excess oil will be drawn into the combustion chamber and burnt, or may result in aeration of oil in the sump causing damage to the engine.

• Dilution

Probably the most prevalent complaint of oil consumption comes from the driver whose vehicle is frequently driven at below normal operating temperatures. The oil becomes diluted by fuel and moisture which settles in the oil pan and may even raise the oil level creating a false reading on the oil level dipstick. For example, in a vehicle that has accumulated 1,500 km of short distance or intermittent city operation and has consumed a normal amount of oil, the level may not have dropped from the FULL mark, due to dilution. If this vehicle is driven for some distance at highway speeds on a warm day, the dilution elements evaporate, lowering the oil level and the motorist assumes the oil "lost" has been consumed in the highway operation.

If, after taking into account the above factors you are still concerned that your engine has excessive oil consumption then you should discuss the situation with a Holden Dealer. Remember that an engine's oil consumption should not be judged until it has run at least 7,000 km.

AUTOMATIC TRANSMISSION LEVEL

The automatic transmission fluid level will be checked by your Holden Dealer when the vehicle is serviced. If an oil leak is seen before the service is due you should consult a Holden Dealer as soon as possible. The transmission fluid level should be replaced at the intervals shown in the Maintenance Schedule, refer Chapter 12.

BRAKE & CLUTCH FLUID LEVELS

Brake fluid level

CAUTION: Brake fluid is poisonous and corrosive and will damage the paint finish of your car if spilt.

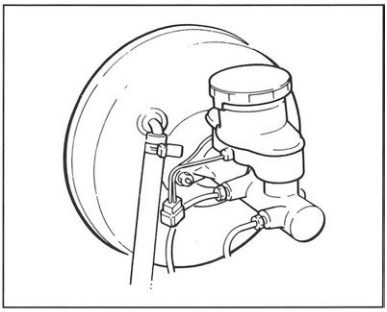
The brake fluid level should be checked weekly. The fluid level is visible through the container and should be maintained between the MIN (or ADD) and MAX level marks. If the fluid is between these levels do not remove the cap, as brake fluid will quickly absorb moisture if exposed to the atmosphere.

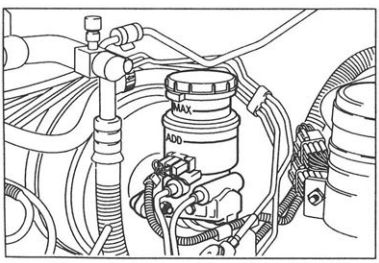
If fluid does need to be added, first ensure that the ignition is switched to OFF.

Wipe clean the sides of the cap and remove the cap. Top up with heavy duty brake fluid, which meets Holden specification number HN 1796. Remember to replace the cap and clean any spilt fluid.

Use only new brake fluid. Use of old, used or inferior brake fluid may endanger the functioning of the brake system.

If the brake fluid requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.





Clutch fluid level

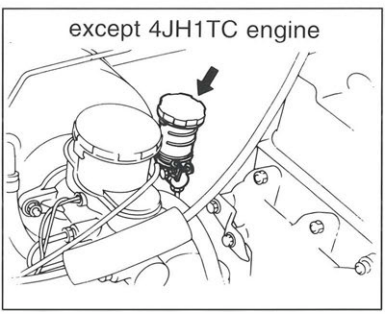
The clutch fluid level should be checked weekly. The fluid level is visible through the container and should be maintained between the MIN and MAX level marks. If the fluid is between these levels do not remove the cap, as the fluid will quickly absorb moisture if exposed to the atmosphere.

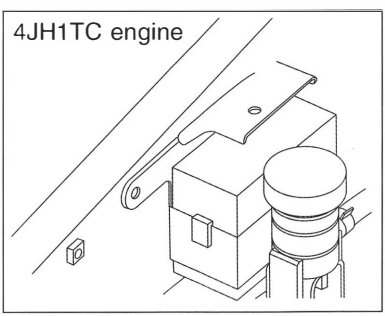
If fluid does need to be added, first ensure that the ignition is switched OFF.

Wipe clean the sides of the cap and remove the cap. Top up with heavy duty brake fluid (both the clutch system and the brake system use **brake** fluid) which meets Holden specification number HN 1796. Remember to replace the cap and clean any spilt fluid.

Use only new fluid. Use of old, used or inferior fluid may endanger the functioning of the clutch system.

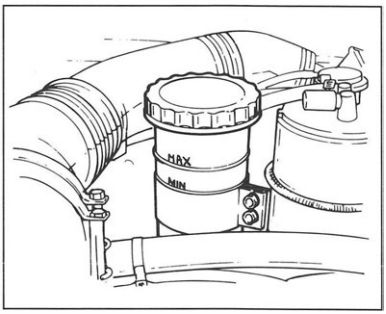
If the clutch fluid requires constant topping up it could indicate that a fault exists and should immediately see your Holden Dealer.





POWER STEERING & WASHER FLUID LEVELS

Power steering fluid level



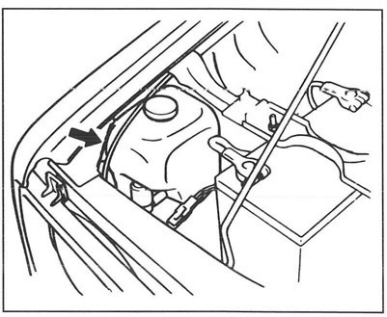
The level should be checked after the vehicle has been driven for a while (at least 20 minutes) so that the fluid is warm. A convenient time is when stopping for petrol.

Ensure the ignition is switched OFF.

The level should be maintained between the level markings on the outside of the reservoir.

If fluid needs to be added, use DEXRON®III. Do not fill over the maximum level and remember to replace the cap tightly. If you often need to add fluid, you should see your Holden Dealer to have the power steering system checked.

Washer fluid level



As washer fluid is constantly used the level should be checked and topped up weekly.

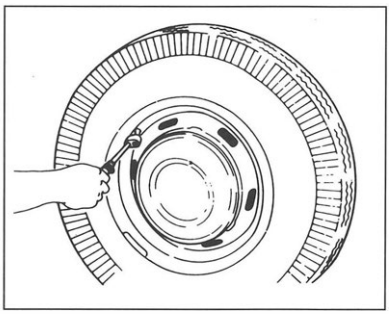
Maintain the fluid level indicated on the outside of the container.

For a crystal clear windscreen, the correct amount of Optikleen (part number 92140005) can be added. Do not use ordinary soap or detergent as these not only froth up but will also damage the wiper rubbers.

Make sure the cap is secured.

TYRES

Tyre air pressure



Weekly checking of the air pressure of your tyres (including the spare) ensures your safety, as well as reducing fuel consumption and increasing the life of your tyres.

For constant long distance or rough road driving, daily checking is recommended.

The correct pressure for your tyres is shown on the tyre placard. If your Rodeo has 2 doors only, the tyre placard is located on the driver's B-pillar, visible when the driver's door is open. If your Rodeo has 4 doors, the tyre placard is located on the C-pillar, visible when the right-side, rear passenger's door is open.

Tyre inflation pressure increases when the tyres have been driven more than 2 km. Therefore, the pressure should be checked when the tyres have been stationary for over 3 hours. If they must be checked immediately after driving, increase the pressure shown on the placard by 10%.

Always use a tyre pressure gauge to check the tyres - simply looking at the tyres is not sufficient.

Remember to replace any valve dust caps or extensions, as this stops dirt and moisture from fouling the valves.

If the pressure is too low, considerable tyre warm up and internal damage can occur, leading to tread separation and even to a tyre blowout at high speeds. Hidden tyre damage cannot not be fixed by adding air afterwards.

Tyre condition, rim condition

Driving over sharp edges can lead to hidden tyre damage and rim damage, which can lead to tyre blowout.

Drive over edges slowly and at right angles if possible. When parking, ensure that the tyres are not pressed against the edge of the curb.

Check the tyres regularly for damage: stones, punctures, cuts, cracks, bulges etc. Check the rims for damage. Consult a Holden Dealer if in doubt.

Alignment and balance

Improper wheel alignment can cause the tyres to wear faster and to wear unevenly. It can also cause the vehicle to pull to the left or right.

Out-of-balance wheels and tyres can cause annoying vibration and uneven tyre wear. If you suspect either of the above problems exist have a wheel alignment and balance check carried out by your Holden Dealer.

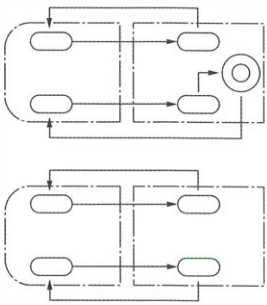
TYRES cont.

Tyre rotation

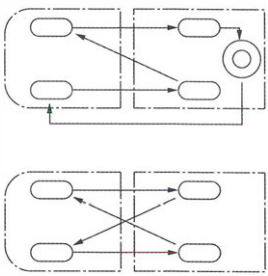
Front and rear tyres perform different jobs and can wear differently depending on the types of roads driven, your driving habits, wheel alignment, balance, tyre pressures etc.

Check the tread depth regularly. If the front tyres have more wear than the rear tyres, have both front wheels changed with the rear wheels so that the tyres with the deeper tread are on the front.

If the wheels are rotated it is recommended that the balance be checked at the same time.



The patterns above (either 4 tyre or 5 tyre) should be followed for normal tyre rotation; the patterns below can be used if one-sided wear is apparent on the tyres.



Replacement and repair

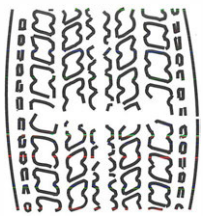
Replacing your factory fitted wheels and tyres with non specified wheels and tyres may affect your warranty as well as your insurance policy. Refer to tyre placard on your vehicle for tyre size and load rating, see previous page. Using a different size or type of tyre may affect such things as ride, handling, speedometer, vehicle ground clearance, tyre clearance or snow chain clearance.

Take care when using tyres with heavy treads, including tyres made for better grip in the wet. At sustained high speeds, this type of tyre will run at higher temperatures than standard tyres and consequently should only be operated within the limits recommended by the manufacturer. Any doubts about the tyres on your vehicle should be referred to your Holden Dealer.

New tyres should be fitted in pairs to the front. If replacing only one tyre, it should be paired on the same axle with the least worn of the other three.

You should replace your tyres when:

- The tyres are worn to the point where the tread indicators appear, or the cord or fabric is showing. The tyres originally fitted to your vehicle have built-in tread indicators which show up when the tyres are worn.
- The tread or sidewall is cut, split, or cracked deep enough to expose the cord or fabric.
- The tyre has a bump or bulge in it, indicating some kind of internal damage.
- The tyre has a puncture, cut or other damage which can't be repaired because of the size or location of the damage.



Tread wear indicators

Do not attempt to drive on the flat tyre more than is necessary to stop safely. Driving even a short distance can damage the tyre and wheel beyond repair. Tyres which have been repaired or retreaded cannot be driven safely at high speeds. Therefore, their use is not recommended.

BATTERY

Battery maintenance

The fluid level of the battery will be checked for you when you take your vehicle to be serviced by your Holden Dealer. If your vehicle is operated in hot temperatures or at constant high speed, the battery fluid level should be checked at least twice between the 6 month Dealer Service.

Each of the six cells must be individually checked. Use distilled water, as required, to keep the level between the upper and lower markings on the battery. **DO NOT OVER FILL.**

CAUTION:

Batteries emit an explosive gas mixture which may be ignited by sparks or naked flames. You should therefore keep sparks and flames away from the battery at all times. Never smoke near a battery.

Batteries contain sulphuric acid. If acid contacts skin or clothing, flush immediately with a lot of water. In case of eye contact, flush with a lot of water and contact a doctor. Battery acid also damages paint and fabrics. To minimise damage, wash off immediately.

Take care with all metal objects and tools including items you may wear (e.g. jewellery, ring and metal watch bands) near battery terminals. Metal objects that touch battery terminals can cause sparks and serious heat burns to the user or wearer.

When checking the battery level, make sure the engine is not running.

Battery replacement

3.2 litre petrol engine: 55D23L. 12 volt, 60 amp hours

2.2 litre petrol engine: 50D20L, 12 volt, 50 amp hours

2.8 litre diesel engine: 95D31L, 12 volt, 80 amp hours

3.0 litre diesel engine: 95D31L, 12 volt, 80 amp hours

CHAPTER 8

Specifications

Page

8-2 Engines
8-3 Transmissions
8-3 Brakes
8-3 Steering
8-4 Axles
8-4 Lubricants
8-4 Dimensions
8-5 Identification plates

ENGINES

ENGINE	Petrol C22NE	Petrol 6VD1	Diesel 4JB1TD	Diesel 4JH1TC
Description	4 cylinder, single o'head cam multi-point fuel injector	6 cylinder, 24 valve, double o'head cam, electronic fuel injection	4 cylinder turbo charged	4 cylinder turbo charged electronic fuel injection
Piston displacement	2,198 cc	3,165 cc	2,771 cc	2,999 cc
Compression ratio	8.6 : 1	8.6 : 1	18.1:1	18.3:1
Power, kW @ rpm	85 @ 5,000	140 @ 5,400	74 @ 3,800	96 @ 3,800
Torque, Nm @ rpm	190 @ 3,800	265 @ 4,200	225@ 1,800	275 @ 2,000
Firing order	1, 3, 4, 2	1, 2, 3, 4, 5, 6	1, 3, 4, 2	1,3,4,2
Injection pressure	-	-	185 kg / cm^2	1st:198kg/cm^2 2nd:344kg/cm^2
Injection/ignition timing	-	12° BTDC @ 750 rpm	11° BTDC	-
Valve clearance (cold) Intake	-	0.28 mm	0.40 mm	0.40 mm
Valve clearance (cold) Exhaust	-	0.30 mm	0.40 mm	0.40 mm
Oil specification	SG or SH grade oil. For normal use, 20W/50 viscosity is recommended. For prolonged use in snow areas, the use of 15W/40 is recommended.		Use API CG grade or better engine oil (or ACEA B1 or B3) 10W/30 viscosity. If unavailable, use CG (or ACEA B1 or B3) 15W/40.	
Oil capacity inc filter	4.5 litres	5.3 lites	6.5 litres	6.5 ltrs (4x2) 7.3 ltrs (4x4)
Coolant capacity	6.9 litres	11.2 ltrs (man) 11 ltrs (auto)	9.5 litres	9.9 ltrs
Coolant specification	50% water and 50% coolant, conforming to Holden's specification no. HN 2217, part no 92141458 (1 litre) or 92141457 (20 litres).			

TRANSMISSIONS, BRAKES & STEERING

Transmissions

Trans & transfer case		MUA5C Manual with 2.8 ltr diesel or 3.2 ltr petrol engine	MUA5S Manual with 2.2 ltr petrol engine	4L30-E Auto with 3.2 ltr petrol engine	4L30-E Auto with 2.8 ltr diesel engine	4L30-E Auto with 3.0 ltr diesel engine
Gear ratio :1	1st	3.767	4.357	2.856	2.804	2.804
	2nd	2.248	2.502	1.618	1.532	1.532
	3rd	1.404	1.501	1.000	1.000	1.000
	4th	1.000	1.000	0.723	0.705	0.705
	5th	0.809	0.809	-	-	-
	Rev	3.873	3.970	2.000	2.394	2.394
	High	1.000	-	-	-	-
	Low	2.050	-	-	-	-
Trans oil		2.95 ltrs	2.95 ltrs	8.6 ltrs	8.0 ltrs	8.7 ltrs
		Use same oil as used in engine, or SAE 5W-30		Dexron® III Automatic Trans Fluid		
Transfer		1.45 litres	-	-		

Brakes

Description	Front wheel disc. Rear wheel drum, incorporating park brake acting on rear wheels
Fluid type	Heavy duty hydraulic brake fluid to Holden's HN 1796 spec.

Steering

Manual	Fluid capacity = 0.4 litres Fluid type = Gear oil GL5 grade
Power	Fluid capacity = 1 litre Fluid type = Dexcon ® III Automatic tranmission fluid

AXLES, LUBRICANTS & DIMENSIONS

Axles

4WD, front and rear	Description Ratio Fluid type Fluidcapacity Viscosity	Limited Slip Diff (rear); Banjo (front) 4.300:1 (4JH1TC man) 4.555:1 (all others) LSD gear oil GL5 grade 1.8 litres (rear); 1.4 litres (front) Use SAE 85 W/140
2WD, rear	Description Ratios Fluid type Fluid capacity Viscosity	Banjo, semi floating 4.300:1 (all man except for C22NE) 4.555:1 (6VD1 auto, 4JH1TC auto, C22NE) Gear oil GL5 grade 1.8 litres Use SAE 85W/140
2WD, rear (LX model) 6VD1 engine	Description Ratios Fluid type Fluid capacity Viscosity	Limited Slip Diff 4.555:1 (auto) 4.300:1 (man) LSD gear oil GL5 grade 1.8 litres (rear);1.4 litres (front) Use SAE 85W/140

Dimensions

Wheel base	3.025 mm	
Wheel track	Front 2WD Front 4WD Rear	1.425 mm 1.395 mm 1.400 mm
Minimum ground clearance	2WD 4WD	210 mm 220 mm

General lubricants

Brake and clutch pedal pivots	Grease to Holden HN1147 specification
Wheel bearings	Wheel bearing grease to Holden HN1227 specification
Chassis, park brake universal joint and propeller shaft sliding yoke	Water resistant EP type chassis lubricant to Holden HN1271 specification

Refer Chapter 10 for vehicle weights.

Refer Chapter 7 for battery specifications.

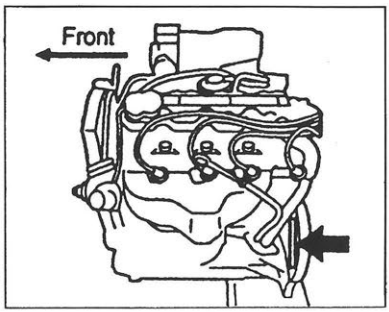
IDENTIFICATION PLATES

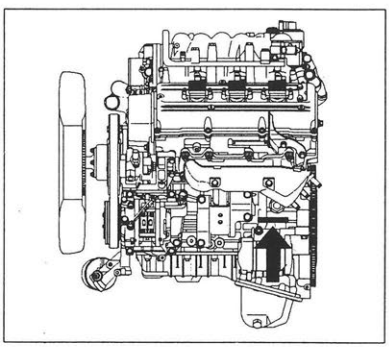
Engine number location

Petrol

The engine number for petrol engines is located in two places:

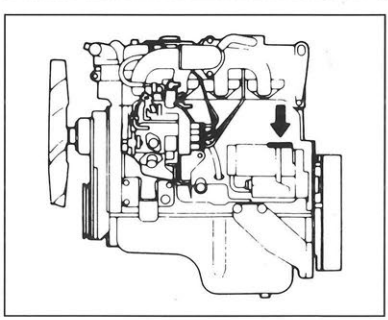
- on a plate in front of the radiator, refer illustration on following page.
- C22NE: stamped on the protrusion at the rear, passenger's side of the cylinder block, refer illustration.
- 6VD1: stamped on the rear lower area on the cylinder block above the starter motor, on the passenger's side, refer illustration.





Diesel

- It is stamped on the passenger rear side of the engine block, refer illustration.



Tyre pressure placard

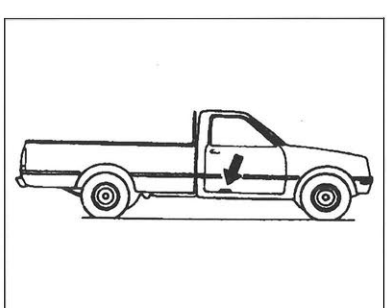
The tyre placard is on the driver's door pillar.

Emission label

The emission label is underneath the bonnet.

V.I.N. (frame)

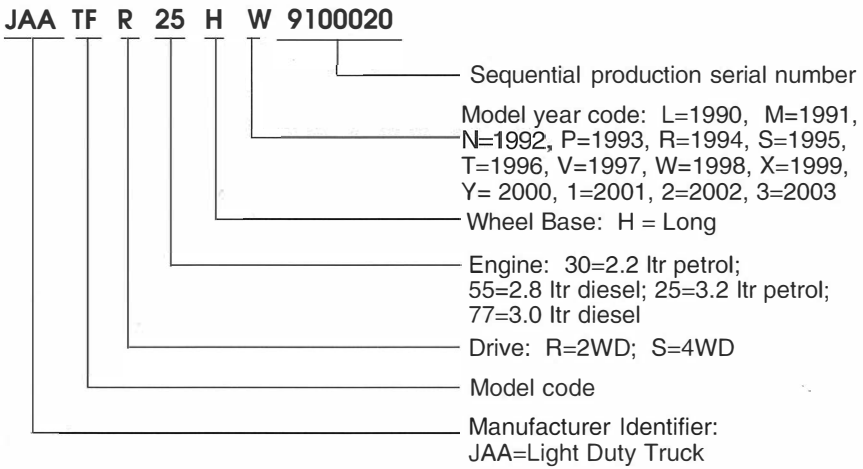
The V.I.N. is stamped on the right-hand side of the chassis side member, under the driver's door.



IDENTIFICATION PLATES

ISOVIN number

The ISOVIN number is shown on the Compliance plate and on the Body and Option plate. The ISOVIN number is used for identification of parts.

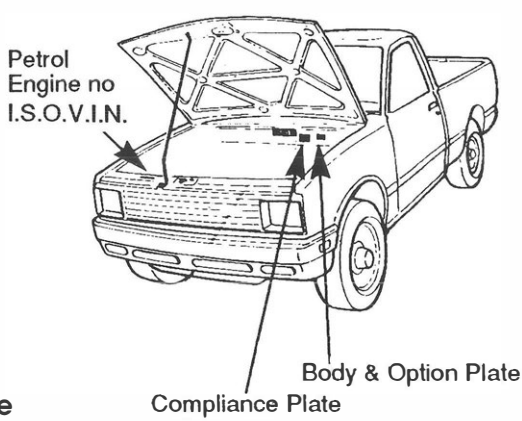

JAA TF R 25 H W 9100020
Sequential production serial number
Model year code: L=1990, M=1991, N=1992, P=1993, R=1994, S=1995, T=1996, V=1997, W=1998, X=1999, Y= 2000, 1=2001, 2=2002, 3=2003
Wheel Base: H = Long
Engine: 30=2.2 ltr petrol; 55=2.8 ltr diesel; 25=3.2 ltr petrol; 77=3.0 ltr diesel
Drive: R=2WD; S=4WD
Model code
Manufacturer Identifier: JAA=Light Duty Truck

Holden Identification Plate

The Holden identification Plate is located on the passenger's side of the radiator support panel. The Holden number is used for warranty identification, Roadside assist identification, etc.

Safety compliance plate

Shown on the plate is the Approval number, category, Manufacturer, Model name and Model code, G.V.M. (Gross Vehicle Mass), Seating capacity, Month and Year of Manufacture, and the V.I.N. (Vehicle Identification Number)



Body & option identification plate

The plate shows body style, body serial number, paint and trim colour combination, paint number, engine transmissions, axle ratio options and built date. The built date is defined as "the date of manufacture" by calendar month and year in which the body shell and power train sub-assemblies are co-joined or moved from the production line.

CHAPTER 9

After Sales

Page

9-2 New Vehicle Warranty
9-4 Parts and Accessories Warranty
9-5 Warranty questions & answers
9-8 Roadside Assistance
9-10 Customer assistance
9-11 Authorised Holden Dealers

Note: Dealership names and details may change after the printing of this Handbook. The list contains both Authorised Holden Dealers and Authorised Holden Service Operations.

NEW VEHICLE WARRANTY CERTIFICATE

New Vehicle Warranty application

This Warranty is given by Holden Ltd ABN 84 006 893 232, ("Holden"). The Warranty applies to the vehicle identified on the inside front cover of this Owner's Handbook. It is provided to the original and subsequent owners/operators driving the vehicle within Australia during the Warranty Period.
This Warranty is given in addition to all rights conferred by law on that person.

Australian vehicles

This Warranty is only applicable to vehicles purchased and operated in Australia.

Owners of vehicles purchased in Australia but operated overseas should consult the local dealer in the country of operation about any Warranty applicable to their vehicle. This Warranty does not apply for Holden vehicles exported overseas. Similarly, this Warranty is not provided for vehicles purchased overseas and imported into Australia.

Repairs covered

Subject to the exclusions shown on the following page, this Warranty covers the correction, during the Warranty Period, of any vehicle defect related to materials or workmanship and advised to a Holden Dealer or Authorised Service Outlet, by repair or at Holden's option by replacement.

Warranty Period

The coverage commences from the date of delivery (or in the case of a demonstrator vehicle the date when the vehicle was first placed into service by the Dealer). The coverage expires at the end of the period of 3 years after the commencement date or after the vehicle has travelled 100,000 kilometres, whichever occurs first.

No charge

Warranty work undertaken (including parts and labour) will be carried out at no cost to the vehicle owner. However, this work should not be confused with servicing specified in the Maintenance schedule in Chapter 12 of this Owner's Handbook for which a charge is payable.

NEW VEHICLE WARRANTY CERTIFICATE cont.

Warranty exclusions

- **Damage**

  Your Warranty does not extend to the following damage:
  Damage caused by an accident, fire, theft or moving objects striking the vehicle.
  Damage caused by industrial fallout, chemicals or sealants.
  Damage caused by atmospheric fallout or flood, hail, salt, etc.

- **Maintenance items**

  Services such as brake adjustment, replacement of filters, wiper rubbers etc., which are required as part of normal vehicle maintenance (refer Chapter 12).

- **Tyres**

  The tyres (and tubes where applicable) fitted to your vehicle are not covered by this Warranty. However, they may be covered by the tyre manufacturer.

- **Batteries**

  Batteries are warranted for 12 months.

- **Misuse**

  This Warranty does not cover damage caused by:

  (a) misuse or abuse of the vehicle such as by racing, rallying, overloading, etc., or neglect
  (b) operation of the vehicle after the defect is known
  (c) failure to carry out proper maintenance services (refer Chapter 12)
  (d) use of incorrect types and grades of fuel, oil or lubricants
  (e) alteration of the vehicle by anyone not authorised by Holden
  (f) fitting of parts or accessories not marketed by Holden
  (g) any work carried out on the vehicle by anyone except an authorised Holden Dealer or authorised Service Outlet.

PARTS AND ACCESSORIES WARRANTY

Holden warrants Holden approved Parts and Accessories ("Parts" and "Accessories") for the periods and on the conditions set out below. The Warranty covers the correction, during the relevant Warranty Period, of defects in any such Parts and Accessories, by repair or at Holden's option by replacement.

- **Accessories installed to the new vehicle**

  Holden approved Accessories installed by a Holden Dealer or authorised Service Outlet to the new vehicle at the time of purchase are covered together with the New Vehicle warranty for the period of 3 years or 100,000 km, whichever occurs first.

- **Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet**

  Parts and Accessories installed after new vehicle delivery by a Holden Dealer or authorised Service Outlet are covered for 2 years or 50,000 km (whichever occurs first). If the vehicle is still within the New Vehicle Warranty the Parts and Accessories are covered by the longer of:

  2 years/50,000 km (whichever occurs first)

  or

  the end of the New Vehicle Warranty.

  As an example, an Accessory installed in a 7 month old car would be covered until the end of the New Vehicle Warranty; an Accessory installed in a 2½ year old car would be covered until the end of 4½ years or a further 50,000 km from when the Accessory was installed.

- **Purchased at retail or trade**

  Parts and Accessories purchased at trade or retail and installed by other than a Holden Dealer or authorised Service Outlet are warranted for 1 year from the date of purchase. Please keep a receipt to support warranty claims.

  The Warranty does not cover the labour costs of removal / reinstallation of Parts and Accessories when installed or rectified by other than a Holden Dealer or authorised Service Outlet.

- **Parts and accessories warranty exclusions**

  The tyres (and tubes where applicable) are not covered by this warranty. However, they may be covered by the tyre manufacturer.
  Batteries are warranted for 12 months from date of purchase.
  Parts which are required as part of normal vehicle maintenance are warranted against manufacturing defect at the time of installation.

WARRANTY QUESTIONS

This section is designed to assist you in understanding the Holden Warranty provided with your new vehicle.

The following are some of the most frequently asked questions for which detailed answers have been provided.

Q 1. How do I go about obtaining Holden Warranty service?

It is the responsibility of the Selling Dealer to provide Holden Warranty service, therefore, you should take your vehicle to the Selling Dealer whenever Holden Warranty service is needed. However, if this is not possible, you may go to any other Authorised Holden Dealer. The details recorded inside the front cover of this handbook will be required by the Dealer.

Q 2. What should I do if my vehicle becomes unsafe or inoperative as a result of a defect which is covered by the Holden New Vehicle Warranty?

You should contact the nearest Authorised Holden Dealer or Holden Customer Assistance Service (refer further in this chapter) as soon as possible, and arrange for that Dealer to carry out the required Holden Warranty Service.

Q 3. What should I do if, in an emergency, Holden Warranty service is required and an Authorised Holden Dealer is not available to provide such service at the time?

If, in an emergency, a repair, replacement or adjustment (covered by the Holden New Vehicle Warranty) is required to enable your vehicle to be operated safely and it is not practical for you to go to an Authorised Holden Dealer, the service (to the extent that it is necessary to enable your vehicle to be operated safely) may be performed by any other qualified mechanic or repairer. A claim for the reasonable cost may be made through the authorised Holden Dealer who would normally provide you with Holden Warranty service. You must also take your vehicle to the Authorised Holden Dealer for inspection of the service and/or completion of any required Holden Warranty service, as soon as possible.

Note: During normal business hours you should seek authorisation from your nearest Authorised Holden Dealer or Holden Customer Assistance Service, prior to repairs being commenced.

Q 4. Are damage or injury, loss of time, inconvenience, commercial or other direct or indirect loss covered by the Holden Warranty?

No, these items are not covered. Holden warranty only covers the repair, replacement or adjustment of those parts of your vehicle which are found to be defective in materials or workmanship. No other types of claim for compensation of any kind, even if the same resulted from a consequence of a defect in materials or workmanship in your vehicle, will be recognised under the Holden New Vehicle Warranty.

You may have rights under the law to claim compensation outside of the Holden New Vehicle Warranty, but any claim based on those rights should be separately pursued.

WARRANTY QUESTIONS cont.

Q 5. Will I have to pay for maintenance costs during the Warranty Period?

Maintenance costs are not covered by the Holden New Vehicle Warranty. The Maintenance Schedules in this handbook (refer Chapter 12) specify the *minimum* maintenance required for your vehicle operating under normal conditions.

The Maintenance items (except where they are required as a result of defects in materials or workmanship) for which you will have to pay include:

- Engine tune-up, including spark plugs replacement.
- Replacement of all filters, engine and other belts, hoses, wiper blades, clutch linings.
- Cleaning or flushing of fuel, coolant, brake, engine, transmission, differential, power steering etc., after 1,500 km.
- Carbon and sludge removal.
- Maintenance servicing of emission control system devices.
- Adding to (or replacing) lubricants.
- Adding to (or replacing) air conditioning refrigerant, after 1,500 km.
- Any necessary adjustments to drive belts, transmissions, clutch, park brake etc.
- Wheel balancing - after 5,000 km.
- Wheel alignment.
- De-dusting or de-glazing of brake linings or pads - after 1,500 km.
- Brake lining wear or damaged brake components due to lining wear
- Clutch lining wear or damaged clutch components due to lining wear
- Brake disc pad or disc wear.
- Battery recharging.
- Paint, bright metal finish and trim, due to normal deterioration.
- Body panel adjustment - after 1,500 km.
- Door, or bonnet lock adjustments.
- Glass or channel adjustments - after 1,500 km.
- Body rattle, squeaks and general tightening of bolts, fasteners and fittings - after 1,500 km.
- Chipped glass or breakage.
- Torn or damaged floor mats or carpets.
- Normal wear and tear to trim components.

Q 6. Are my tyres covered by the Holden New Vehicle Warranty?

No. The tyres fitted to your vehicle are covered by a separate warranty provided by the tyre manufacturer. Any Authorised Holden Dealer will assist you by discussing any queries which you might have with respect to the tyre manufacturer's warranty with the tyre manufacturer's representative.

WARRANTY QUESTIONS cont.

Q 7. Will I have to pay for any costs or expenses in connection with the provision of Holden Warranty service?

All parts and labour used in carrying out Holden Warranty service at the premises of the servicing Holden Dealer are free of charge. Whenever Holden Warranty service is to be carried out by the servicing Holden Dealer it is your responsibility to deliver your vehicle to the servicing Holden Dealer's premises.

If, as a result of a defect which is covered by the Holden New Vehicle Warranty, your vehicle cannot be driven safely and you arrange for the nearest Authorised Holden Dealer to carry out the required Holden Warranty service, Holden will accept reasonable towing costs to move your vehicle to the nearest Holden Dealer's premises. Before employing a towing company, contact the nearest Holden Dealer and/or Holden Customer Assistance Service (refer page 10 of this Chapter) to obtain guidance.

Q 8. Would my vehicle's engine benefit from fuel additives, oil additives or coolant additives not marketed by Holden ?

The use of break-in oil, tune-up compounds, friction-reducing compounds and other supplemental additives is not recommended; their use will not only increase operating costs, but may also be detrimental to the operation of your vehicle.

Only the fluids and lubricants referred to in this handbook should be used.

UNAUTHORISED STATEMENTS IN RELATION TO HOLDEN PRODUCTS

No Holden Dealer or other person is authorised or permitted to give or make any statement, assertion or undertaking in relation to the quality, performance, characteristics, descriptions or fitness for any purpose of any Holden product or in connection with the supply of any Holden product, which is at variance with any written statement, assertion or undertaking on any of these subjects given or made by Holden in its published sales literature, and Holden does not accept any such unauthorised action.

ROADSIDE ASSISTANCE

3 YEAR
24 HOUR ROADSIDE ASSISTANCE

Our commitment to your satisfaction

Holden's Roadside Assistance is part of the unequalled commitment by Holden to provide total motoring satisfaction.

From the moment delivery is made, our aim is to provide the finest possible ownership experience, from design through manufacturing to servicing and now beyond to the open road, Australia wide.

We hope the need never arises, but if it does, we'll be there to help through Holden Roadside Assistance.

How does Holden Roadside Assistance work?

Holden Roadside Assistance is provided by Holden Ltd., and delivered by the collective resources of the Australian Automobile Clubs and Associations (the constituents of Assist Australia) the AA.

Which vehicles are covered by the service?

As of 1st November 1993 all new Holden passenger and light commercial vehicles are covered for 36 months from the date of first registration.

Holden Roadside Assistance is extended to private and business vehicles, taxis, rental companies, all government and fleet operators.

What will Holden Roadside Assistance do for me?

Holden Roadside Assistance is designed to get you mobile on any road that is trafficable to normal two wheel drive vehicles. In the event of the unexpected happening, from your keys being locked in your car to mechanical and accident advice, help is readily available by simply calling the toll free number 1800 817 100.

All Holden luxury vehicles receive the added benefits of Holden Roadside **Ultra** Assist which includes accommodation, alternative transport, rental car, assistance in case of accident, theft and medical emergency and Australia wide vehicle recovery.

Can I upgrade to Roadside Ultra assist?

Yes, owners can upgrade to Holden Roadside **Ultra** Assistance for a fee by dialling 1800 645 668.

ROADSIDE ASSISTANCE cont.

When do the benefits begin?

Cover begins from the date of first registration. An interim card entitles you to immediately receive all the benefits of Holden Roadside Assistance.

Where can I get Roadside Assistance?

Holden Roadside Assistance is available to you at home, or at the roadside, anywhere in Australia, should you need it. In remote or sparsely populated areas you may experience delays in obtaining Roadside Assistance due to your location, the availability of the service provider and accessibility.

Is there a membership or joining fee?

No, Holden Roadside Assistance is complimentary with every new Holden passenger vehicle and light commercial vehicle for 36 months from the date of first registration.

What will Holden Roadside Assistance cost me?

Materials, fuel and spare parts must be paid for at the time of service. The service personnel attending will issue a receipt for these expenses. Reimbursement of expenses covered by Holden's warranty can be claimed by contacting your local Holden Dealer.

What happens if I sell my vehicle?

Holden Roadside Assistance stays with the vehicle, so if you sell your vehicle during the 36 month period, it is still eligible for the balance of the Holden Roadside Assistance. The new owner simply registers for the service by using the change of ownership form supplied in the Roadside Assistance booklet.

How do I call for assistance?

Simply call Holden Roadside Assistance toll free on 1800 817 100 from anywhere in Australia. For further information regarding the service and full terms and conditions, refer to the Roadside Assistance Kit in the glovebox or call the toll free Customer Assistance Service Line on 1800 033 349.

CUSTOMER ASSISTANCE

We want you to be happy with your new vehicle, together with the people you deal with while you have the vehicle.

Normally, any problems with the sales, operation, servicing or the validity of original equipment supplied with your vehicle will be handled by your Holden Dealer's Sales and Service Department.

We realise however that, with the best intentions, misunderstandings do occur sometimes.

Therefore, we suggest you discuss any concern with one of the Holden Dealer's management people. If you haven't received satisfaction from the Sales Manager or Service Manager - go to the General Manager or to the Dealer Principal.

By now you should have satisfaction. If not, the Holden Customer Assistance office is at your disposal.

The Holden Customer Assistance representatives can be telephoned from anywhere within Australia for only the cost of a local call. The Melbourne area number is 9646 5466. Outside the Melbourne Metropolitan area, the number is 1800 03 3349.

If your concern relates to parts/accessories and you have made contact with the Dealer or Distributor without satisfaction, you may contact Holden Service Parts Operations on (03) 9797 7341.

Naturally, telephoning is the quickest and the best way to contact. However, if you prefer to write the address is:

The Manager
Holden Customer Assistance Centre
GPO Box 1714
Melbourne, 3001.

Your letter should clearly outline your concern or query, and include the following:

- Your name and address.
- Telephone numbers, both private & business.
- Servicing Dealership's name and address.
- Vehicle model.
- Vehicle identification number (I.S.O.V.I.N.), refer to the inside front cover of this Handbook.
- Date of purchase.
- Current odometer reading.

Most of this information will be found on the Vehicle Identification Certificate, located inside the front cover of this Handbook.

Before you write however, remember that the telephone is the quicker and more efficient means of communication.

AUSTRALIAN HOLDEN DEALERS

N.S.W. Metropolitan

ARNCLIFFE
Suttons Motors Arncliffe P/L
93 Princes Highway
P: (02) 9335 9000 FAX: (02) 9335 9006

ASHFIELD
Muirs Holden
252 Parramatta Road
P: (02) 9798 8888 Fax: (02) 9799 7010

BALGOWLAH
Peninsula Holden Balgowlah
164 Condamine Street
P: (02) 9949 1888 FAX (02) 9949 7237

BANKSTOWN
Peninsula Holden Bankstown
466 Chapel Road
P: (02) 9790 1234 Fax: (02) 9790 0033

BLACKTOWN
Heartland Holden
120~128 Sunnyholt Road
P: (02) 9622 7333 Fax: (02) 9671 7394

CAMDEN
Camden Holden
33 Edward Street
P: (02) 4655 5000 Fax: (02) 4655 5001

CAMPBELLTOWN
Paul Wakeling Holden
Cnr Blaxland & Campbelltown Rds
P: (02) 4628 1444 Fax: (02) 4628 3262

CASTLE HILL
Heartland Holden
Cnr Victoria Ave/Windsor Rd
P: (02) 9894 6666 Fax: (02) 9894 5600

CHULLORA
Suttons Motors (Chullora) P/L
Cnr Hume Hwy/Waterloo Rd
P: (02) 9642 0233 Fax: (02) 9642 7798

DEE WHY
Peninsula Holden Dee Why
Cnr May & Mooramba Roads
P: (02) 9982 1311 Fax: (02) 9982 3755

EAST SYDNEY
Suttons City Holden
137-157 Bourke Street
P: (02) 9357 4222 Fax: (02) 9358 5542

GORDON
Sundell Holden
836 Pacific Highway
P: (02) 9498 7766 Fax: (02) 9498 2906

HOMEBUSH
Suttons Motors Homebush P/L
112 Parramatta Road
P: (02) 9746 4500 Fax: (02) 9746 7206

LAKEMBA
United Holden Lakemba
817 Canterbury Road
P: (02) 9740 5555 Fax: (02) 9740 5907

LANSVALE
Lansvale Holden
266~284 Hume Highway
P: (02) 9728 7333 Fax: (02) 9726 1085

LIVERPOOL
McGrath Holden
411~419 Hume Highway
P: (02) 9821 5000 Fax: (02) 9821 1993

PARRAMATTA
Heartland Holden
65 Church Street
P: (02) 9204 6666 Fax: (02) 9635 6346

PENNANT HILLS
Barry Smith Holden
343~355 Pennant Hills Road
P: (02) 9483 3333 Fax: (02) 9484 7475

PENRITH
Heartland Holden
Cnr Henry St & Evan Street
P: (02) 4732 1966 Fax: (02) 4721 5896

ROCKDALE
United Holden Rockdale
571 Princes Hwy
P: (02) 9567 0321 Fax: (02) 9597 7395

ROSEBERY
Suttons City Holden
Link Road
P: (02) 9931 3000 Fax: (02) 9931 3001

RYDE
Hunter Holden
603~619 Victoria Road
P: (02) 9808 9123 Fax: (02) 9809 6592

SPRINGWOOD
Springwood Holden
15 Ferguson Road
P: (02) 4751 1911 Fax: (02) 4751 2481

ST LEONARDS
Hunter Holden
4 Herbert Street
P: (02) 9906 4044 Fax: (02) 9439 4635

AUSTRALIAN HOLDEN DEALERS CONT.

ST. MARY'S
Heartland Holden
Cnr Glossop & Harris Streets
P: (02) 9673 2111 Fax: (02) 9673 4932

SUTHERLAND
McGrath Holden Sutherland
499~505 Princes Highway
P: (02) 9545 4811 Fax: (02) 9545 2533

WAITARA
Suttons Motors Waitara P/L
90 Pacific Hwy
P: (02) 9487 2222 Fax: (02) 9489 0009

WINDSOR
Hawkesbury Valley Holden
18 Macquarie Street
P: (02) 4577 4077 Fax: (02) 4577 2592

N.S.W. Country

ARMIDALE
New State Motors
103 Rusden Street
P: (02) 6772 9444 Fax: (02) 6772 5836

BALLINA
Quayside Motors
Pacific Highway
P: (02) 6686 5111 Fax: (02) 6686 8574

BATEMANS BAY
Surfair Holden
30-32 Orient Street
P: (02) 4472 5111

BATHURST
Bathurst Holden
Mitchell Highway
P: (02) 6331 2077 Fax: (02) 6331 9177

BEGA
Bega Valley Holden
Cnr Upper and Gibbs Sts
P: (02) 6492 2333 Fax: (02) 6492 3105

BLAYNEY
Blayney Holden
98 Adelaide Street
P: (02) 6368 2745 Fax: (02) 6368 3257

BOMBALA
Delcott Engineering Pty Ltd
Maybe Street
P: (02) 6458 3341 Fax: (02) 6458 3940

BOOROWA
Boowowa Auto Repairs
40 Marsden Street
P: (02) 6385 3305

BREWARRINA
Lukas Holden
Bathurst Street
P: (02) 6839 2105 Fax: (02) 6839 2454

BROKEN HILL
Donlee Motors Pty Ltd
Cnr Galena & Rakow Streets
P: (08) 8087 2463 Fax: (08) 8087 7971

CANOWINDRA
Canowindra Motors
Gaskill Street
P: (02) 6344 1105 Fax: (02) 6344 1105

CARDIFF
Brian Kelly Holden
35~39 MacQuarie Road
P: (02) 4954 7733 Fax: (02) 4954 9407

CASINO
Casino Holden
142 Barker Street
P: (02) 6662 2822 Fax: (02) 6662 2101

CESSNOCK
Geoff Boyd Holden
Cnr Wollombi Road and Darwin Street
P: (02) 4990 3800 Fax: (02) 4991 1544

COBAR
Cobar Holden
Cnr Lewis St & Louth Road
P: (02) 6836 4005 Fax: (02) 6836 3409

COFF'S HARBOUR
Geoff King Holden
Cnr Pacific Hwy and Thompson Road
P: (02) 6652 2288 Fax: (02) 6652 5360

COOMA
Summit Holden
66~70 Sharp Street
P: (02) 6452 1077 Fax: (02) 6452 1142

COONABARABRAN
Coonabarabran Holden
24 Charles Street
P: (02) 6842 1499 Fax: (02) 6842 2473

COONAMBLE
Moody's Motors
37 Aberford Street
P: (02) 6822 1161 Fax: (02) 6822 1624

COOTAMUNDRA
Jenkins Garage
111 Wallendoon Street
P: (02) 6942 2522 Fax: (02) 6942 1493

AUSTRALIAN HOLDEN DEALERS cont.

COWRA
Waugoola Motors Pty Ltd
Kendal Street
P: (02) 6342 1800 Fax: (02) 6342 3614

CROOKWELL
Crookwell Autos
114 Goulburn Street
P: (02) 4832 1433 Fax: (02) 4832 2157

DENILIQUIN
Burchfield Bros & Co
112~114 End Street
P: (03) 5881 2133 Fax: (03) 5881 3322

DORRIGO
Phil Noble Motors
46~48 Hickory Street
P: (02) 6657 2017 Fax: (02) 6657 2217

DUBBO
John Kierath
54 Bourke Street
P: (02) 6882 1011 Fax: (02) 6882 7102

DUNGOG
Turner Holden
248 Dowling Street
P: (02) 4992 1816 Fax: (02) 4992 1833

EDEN
Ron Doyle
113 Princes Highway
P: (02) 6496 1420 Fax: (02) 6496 1467

FINLEY
Riverina Garage Finley
104 Murray Street
P: (03) 5883 1211 Fax: (03) 5883 1638

FORBES
Frank Spice Holden
20~22 Dowling Street
P: (02) 6851 1755 Fax: (02) 6852 2825

GATESHEAD
Brian Kelly Holden
39 Pacific Highway
P: (02) 4920 7000 Fax: (02) 4920 8008

GILGANDRA
Gilgandra Holden
3 Morris Street
P: (02) 6847 1888 Fax: (02) 6847 1277

GLEN INNES
Glen Severn Holden
167 Grey Street
P: (02) 6732 2888 Fax: (02) 6732 3394

GOSFORD
Noble Holden
Pacific Highway
P: (02) 4325 0511 Fax: (02) 4324 1043

GOULBURN
Geissler Motors
279~298 Auburn Street
P: (02) 4821 3744 Fax: (02) 4821 9798

GRAFTON
Ken Casson Holden
37~39 Turf Street
P: (02) 6642 6666 Fax: (02) 6642 6737

GRENFELL
Peter Mellon Motors
40 Alexandra Street
P: (02) 6343 1522 Fax: (02) 6343 1347

GRIFFITH
Leo Franco Holden
164~166 Yambil Street
P: (02) 6964 2977 Fax: (02) 6962 4916

GUNNEDAH
Namoi Valley Motors
48 Barber Street
P: (02) 6742 0211 Fax: (02) 6742 3842

HARDEN
Ginty & O'Leary
Cnr Station & Albury Streets
P: (02) 6386 2320 Fax: (02) 6386 2722

HAY
Royce Curtis Motors
168 Lachlan Street
P: (02) 6993 1503 Fax: (02) 6993 2212

HOLBROOK
Lieschke Motors Pty Ltd
78 Albury Street
P: (02) 6036 2244 Fax: (02) 6036 2831

INVERELL
Gaukroger Sales Pty Ltd
Vivian Street
P: (02) 6722 2722 Fax: (02) 6722 1804

JERILDERIE
Jerilderie Motors
Jerilderie Street
P: (03) 5886 1302 Fax: (03) 5886 1734

KANDOS
Chrisfield Holden
11 Angus Street
P: (02) 6379 4204 Fax: (02) 6379 4606

AUSTRALIAN HOLDEN DEALERS cont.

KATOOMBA
Katoomba Holden
136 Great Western Highway
P: (02) 4732 1966 Fax: (02) 4782 5546

KEMPSEY
Thoroughgood Holden
118~132 Belgrave Street
P: (02) 6562 1381 Fax: (02) 6562 1383

KIAMA
Glen Fulton Holden
35~41 Collins Street
P: (02) 4232 1888 Fax: (02) 4232 3062

KYOGLE
O & H Holden
128~134 Summerland Way
P: (02) 6632 1711 Fax: (02) 6632 2552

LEETON
John Ryan Holden
47~51 Pine Avenue
P: (02) 6953 2466 Fax: (02) 6953 6725

LISMORE
John Chant Motors Pty Ltd
Carrington Street
P: (02) 6621 2601 Fax: (02) 6622 4659

LITHGOW
Lithgow City Holden
255 Main Street
P: (02) 6351 4555 Fax: (02) 6351 4653

MACKSVILLE
Eastland Auto Centre
18~22 Cooper Street
P: (02) 6568 1711 Fax: (02) 6568 1816

MACLEAN
O'Halloran Motors
175 River Street
P: (02) 6645 2844 Fax: (02) 6645 4003

MAITLAND
Heritage Holden
Cnr New England Hwy & Bungaree St
P: (02) 4932 0779 Fax: (02) 4932 0473

MOREE
Keith Haddad Holden
Cnr Boston & Heber Streets
P: (02) 6752 1855 Fax: (02) 6752 1298

MORUYA
Surfair Holden
88 Vulcan Street
P: (02) 4474 2555 Fax: (02) 4474 2129

MOSS VALE
Moss Vale Holden
160~162 Argyle Street
P: (02) 4868 1055 Fax: (02) 4868 3330

MULLUMBIMBY
Tony Carsburg Holden
2 Argyle Street
P: (02) 6684 2066 Fax: (02) 6684 4593

MUDGEE
Ross Granata Motors
32 Sydney Road
P: (02) 6372 1766 Fax: (02) 6372 3735

MURWILLUMBAH
Tweed Motors
29 Prospero Street
P: (02) 6672 4444 Fax: (02) 6672 5811

MUSWELLBROOK
Upper Hunter Motors Pty Ltd
116 Bridge Street
P: (02) 6543 2577 Fax: (02) 6543 2565

NARRABRI
Allan Cooper Holden
181 Maitland Street
P: (02) 6792 3488 Fax: (02) 6792 4750

NEWCASTLE
Newcastle City Holden
King Street (Cnr Stewart Ave)
P: (02) 4961 5301 Fax: (02) 4961 6485

NOWRA
Glendon Motors Holden
301~313 Princes Highway
P: (02) 4421 0144 Fax: (02) 4423 0854

NYNGAN
New Bridge Service Centre
36 Numagee Street
P: (02) 6832 1761 Fax: (02) 6832 2760

ORANGE
Canobolas Holden
Cnr Summer St & Endsleigh Ave
P: (02) 6362 0155 Fax: (02) 6361 3702

PARKES
Broderick Motors Holden
Cnr Mitchell & Clarinda Sts
P: (02) 6862 2266 Fax: (02) 6862 1406

PEAK HILL
S. Leary & Sons Pty Ltd
Mingelo Street
P: (02) 6869 1459 Fax: (02) 6869 1999

AUSTRALIAN HOLDEN DEALERS cont.

PORT MACQUARIE
Bob Todd Motors Pty Ltd
115 Gordon Street
P: (02) 6583 1100 Fax: (02) 6584 9508

QUIRINDI
Browning Motors
82 Henry Street
P: (02) 6746 1666 Fax: (02) 6746 1422

SCONE
Upper Hunter Motors (Scone)
100 Liverpool Street
P: (02) 6545 1355

SINGLETON
Lancaster Holden
80 John Street
P: (02) 6578 8700 Fax: (02) 6578 8733

TAMWORTH
Kensell's Holden
Cnr Bourke St & Kable Ave
P: (02) 6766 6699 Fax: (02) 6766 7339

TAREE
Cullen Holden
21~25 Victoria Street
P: (02) 6552 2222 Fax: (02) 6552 1269

TEMORA
Rod Lovering Holden
607-608 Stockinbingal Road
P: (02) 6977 2255 Fax: (02) 6977 2033

TENTERFIELD
Sexton & Green (Sales & Service) P/L
148 Rouse Street
P: (02) 6736 1855 Fax: (02) 6736 1946

TUMUT
Harry Kell & Sons Pty. Ltd
Cnr. Merrivale & Russell Streets
P: (02) 6947 2293 Fax: (02) 6947 3763

TUNCURRY
Great Lakes Holden
144 Manning Street
P: (02) 6555 6644 Fax: (02) 6555 7433

TWEED HEADS
Tweed Motors
75~79 Pacific Highway
P: (07) 5536 3411 Fax: (07) 5536 4490

ULLADULLA
Alan May Holden
169 Princes Highway
P: (02) 4455 1166 Fax: (02) 4455 4122

WAGGA WAGGA
Wagga Motors Pty Ltd
32 Dobney Avenue
P: (02) 6925 3411 Fax: (02) 6925 3283

WALCHA
Bowdens Holden Walcha
18 Derby Street
P: (02) 6777 2226 Fax: (02) 6777 2319

WALGETT
Walgett Garage Pty Ltd
81 Wee Waa Street
P: (02) 6828 1088 Fax: (02) 6828 1198

WALLA WALLA
D.E. Lieschke & Son Pty Ltd
63 Commercial Road
P: (02) 6029 2202 Fax: (02) 6029 2134

WARIALDA
Roger Moore
Hope Street
P: (02) 6729 1570 Fax: (02) 6729 1104

WARILLA
Wilson's Holden
29 Shellharbour Road
P: (02) 4295 1223 Fax: (02) 4296 1007

WARREN
Fuller Bros
Dubbo Street
P: (02) 6847 4978 Fax: (02) 6847 4477

WELLINGTON
Gersbach's Garage Pty Ltd
92 Lee Street
P: (02) 6845 2733 Fax: (02) 6845 3236

WEST WYALONG
West Wyalong Motors
183 Main Street
P: (02) 6972 2388 Fax: (02) 6972 2570

WOLLONGONG
Dwyers City Holden
31~33 Crown Street
P: (02) 4229 9222 Fax: (02) 4229 5105

WYONG
Barry Robertson Holden
172 Pacific Highway
P: (02) 4351 2588 Fax: (02) 4352 1759

YOUNG
Harden & Geelan Holden
30 Boorowa Street
P: (02) 6382 1155 Fax: (02) 6382 4673

AUSTRALIAN HOLDEN DEALERS cont.

A.C.T.

BELCONNEN
Gerald Slaven Holden
2 Josephson Street
P: (02) 6251 5111 Fax: (02) 6253 1298

BRADDON
Rolfe Holden
44 Mort Street
P: (02) 6248 7888 Fax: (02) 6257 1328

PHILLIP
Commonwealth Motors Pty Ltd
158 Melrose Drive
P: (02) 6282 3522 Fax: (02) 6282 5214

Tas.

BURNIE
Motors Burnie
Marine Terrace
P: (03) 6431 1122 Fax: (03) 6431 3146

DEVONPORT
Motors Devonport
Victoria Parade
P: (03) 6424 4033 Fax: (03) 6424 5249

HOBART
Motors Pty Ltd
179 MacQuarie Street
P: (03) 6220 1171 Fax: (03) 6223 8117

KING ISLAND
King Island Motors Pty Ltd
Netherby Road, Currie
P: (03) 6462 1155 Fax: (03) 6462 1488

LAUNCESTON
Motors Launceston
93~95 Elizabeth Street
P: (03) 6332 9101 Fax: (03) 6334 5245

Vic. Metropolitan

BERWICK
Barry Bourke Holden
755 Princes Highway
P: (03) 9707 2222 Fax: (03) 9707 3091

BUNDOORA
Watson Holden
413 Grimshaw Street
P: (03) 9467 4677 Fax: (03) 9467 7661

BURWOOD
Penfold Holden
142 Burwood Highway
P: (03) 9268 1333 Fax: (03) 9268 1335

CHELSEA
Harrison Holden
370 Nepean Highway
P: (03) 9772 2233 Fax: (03) 9772 2190

CHELTENHAM
Booran Holden
1212 Nepean Highway
P: (03) 9584 3333 Fax: (03) 9584 4285

DANDENONG
Booran Holden
17 Lonsdale Street
P: (03) 9794 5455 Fax: (03) 9792 4871

DONCASTER
Doncaster Holden
636~640 Doncaster Road
P: (03) 9840 0188 Fax: (03) 9840 2587

ELSTERNWICK
Reg Hunt Holden
63 Nepean Highway
P: (03) 9528 2222 Fax: (03) 8545 7644

ESSENDON
Preston Motors (Essendon) P/L
205~211 Keilor Road
P: (03) 9374 2888 Fax: (03) 9379 6754

FAWKNER
Mantello Holden
1263 Sydney Road
P: (03) 9359 1333 Fax: (03) 9359 9334

FERNTREE GULLY
Ferntree Gully Holden
980 Burwood Highway
P: (03) 9758 2222 Fax: (03) 9758 3435

FOOTSCRAY
Alan Mance Holden
435 Barkly Street
P: (03) 9396 8000 Fax: (03) 9396 8001

FRANKSTON
Bay City Holden
140 Dandenong Road
P: (03) 9784 4444 Fax: (03) 9784 4419

GEELONG
R & B Smith Holden
510 Moorabool Street
P: (03) 5222 2888 Fax: (03) 5221 3114

GEELONG
Winter & Taylor (Sales) P/L
23 Cavendish Street
P: (03) 5222 1811 Fax: (03) 5221 1873

AUSTRALIAN HOLDEN DEALERS cont.

GLENHUNTLY
Booran Holden
1234 Glenhuntly Road
P: (03) 9571 9313 Fax: (03) 9571 8374

GLEN WAVERLEY
Geoff Brady Holden
565~577 Springvale Road
P: (03) 9550 5888 Fax: (03) 9550 5855

HASTINGS
John Collins Holden
2041 Frankston-Flinders Road
P: (03) 5979 4433 Fax: (03) 5975 4720

LILYDALE
Heritage Holden
344 Main Street
P: (03) 9735 5566 Fax: (03) 9735 1040

MELTON
Alan Mance Holden
1 Holland Drive
(03) 9746 9666 Fax: (03) 9746 9555

MORNINGTON
John Collins Holden
976 Nepean Highway
P: (03) 5975 4433 Fax: (03) 5975 4720

OAKLEIGH
Garry & Warren Smith
1575 Dandenong Road
P: (03) 9568 6333 Fax: (03) 9568 5691

PRESTON
Ralph D'Silva Holden
573~603 High Street
P: (03) 9471 0500 Fax: (03) 9478 4210

RINGWOOD
Patterson Cheney Holden
45~57 Maroondah Highway
P: (03) 9262 6666 Fax: (03) 9870 1113

SOUTH MELBOURNE
South City Holden
380 City Road
P: (03) 9627 3333 Fax: (03) 9682 6888

SOUTH YARRA
Penfold Holden
681 Chapel Street
P: (03) 9827 2272 Fax: (03) 9826 5328

SUNBURY
Sunbury Holden
93~95 Horne Street
P: (03) 9740 3000 Fax: (03) 9740 4777

SUNSHINE
Kevin Dennis Holden
272 Ballarat Road
P: (03) 9292 9292 Fax: (03) 9292 9200

WERRIBEE
Ballan Holden
56 Princes Highway
P: (03) 9741 2222 Fax: (03) 9742 3797

WEST MELBOURNE
Reg Hunt Holden
577 King Street
P: (03) 9329 6611 Fax: (03) 9329 1550

Vic. Country

ALEXANDRA
Alexandra Total Automotive Services
120 Grant Street
P: (03) 5772 1588 Fax: (03) 5772 1978

ARARAT
David Reid Motors
High Street
P: (03) 5352 4100 Fax: (03) 5352 4388

BAIRNSDALE
The Big Garage
628 Princes Highway
P: (03) 5152 4131 Fax: (03) 5152 5313

BALLARAT
Peter Amor Motors
211 Gillies Street
P: (03) 5339 9333 Fax: (03) 5339 9202

BENALLA
Arnott's Motors
88~90 Bridge Street
P: (03) 5762 2500 Fax: (03) 5762 1586

BENDIGO
Ron Poyser Holden
Cnr High & Myrtle Streets
P: (03) 5442 3999 Fax: (03) 5442 7766

BIRCHIP
R.L. & C.J. Bales
38 Cumming Avenue
P: (03) 5492 2543

CAMPERDOWN
Camperdown Auto Parts
96 Manifold Street
P: (03) 5593 1983 Fax: (03) 5593 1979

CASTERTON
Coxons Holden
139 Henty Street
P: (03) 5581 1166 Fax: (03) 5581 2116

AUSTRALIAN HOLDEN DEALERS cont.

CHARLTON
K.V. Charlton
70 High Street
P: (03) 5491 1444 Fax: (03) 5491 1984

COBRAM
Neville Mustica Motors
Murray Valley Hwy
P: (03) 5872 1666 Fax: (03) 5872 1920

COHUNA
Hare Motors Holden
105~107 King George Street
P: (03) 5456 4488 Fax: (03) 5456 4448

COLAC
Parker Bros. Motor Co
224 Murray Street
P: (03) 5231 5533 Fax: (03) 5231 3853

DAYLESFORD
K.R. Little
Vincent Street
P: (03) 5348 2248

DONALD
O.A. Shilton & Sons Pty Ltd
5 Woods Street
P: (03) 5497 1400 Fax: (03) 5497 1505

ECHUCA
Echuca Motors
1 Nothern Highway
P: (03) 5482 1522 Fax: (03) 5480 6215

EUROA
Parker Bros Auto Co. Euroa
37~41 Clifton Street
P:(03) 5795 2702 Fax: (03) 5795 1288

FOSTER
Ray Dower Motors
78 Main Street
P: (03) 5682 2404

HAMILTON
Bloods of Hamilton
210 Gray Street
P: (03) 5572 1433 Fax: (03) 5571 1182

HOPETOUN
Hopetoun Motors
78 Lascelles Street
P: (03) 5083 3143 Fax: (03) 5083 3290

HORSHAM
Ivan Morrow Motors Pty Ltd
22 O'Callaghans Parade
P: (03) 5382 0185 Fax: (03) 5382 0459

KANIVA
Kaniva Motors
82 Commercial Street
P: (03) 5392 2300 Fax: (03) 5392 2589

KOO WEE RUP
G & J Light Mechanical Repairs P/L
Station Road
P: (03) 5997 1325

KORUMBURRA
Peter Dunlevie Holden
42 Commercial Street
P: (03) 5655 1288 Fax: (03) 5655 1839

KYABRAM
D'Alberto Holden
60 McEwen Road
P: (03) 5852 1366 Fax: (03) 5852 1337

KYNETON
Mollison Motors Pty Ltd
167 Mollison Street
P: (03) 5422 3377 Fax: (03) 5422 3501

LEONGATHA
Gleeson Holden
37~43 Bair Street
P: (03) 5662 2361 Fax: (03) 5655 1839

MANSFIELD
Martin's Garage
52~54 Chenery Street
P: (03) 5775 2610 Fax: (03) 5775 1179

MARYBOROUGH
Graham Jacka Holden
35 Nolan Street
P: (03) 5461 1011 Fax: (03) 5461 4789

MILDURA
Stuart & Harrison (Sales) Pty Ltd
24~32 Deakin Avenue
P: (03) 5023 0051 Fax: (03) 5021 3076

MORTLAKE
W. Christian (Mortlake) Pty. Ltd.
107 Dunlop Street
P: (03) 5599 2301 Fax: (03) 5599 2567

MURRAYVILLE
Peers Motors
McKenzie Street
P: (03) 5095 2081 Fax: (03) 5095 2054

NATHALIA
BHB Motors
6 Blake Street
P: (03) 5866 2660

AUSTRALIAN HOLDEN DEALERS cont.

NHILL
Ivan Morrow Motors Pty Ltd
71~73 Nelson Street
P: (03) 5391 1333 Fax: (03) 5391 1228

NULLAWIL
Nullawil Motors & General Engineers
Calder Highway
P: (03) 5493 5210 Fax: (03) 5493 5377

ORBOST
Merlin Motors
Stanley Street
P: (03) 5154 1909

PORTLAND
Reynolds of Portland
Henty Highway
P: (03) 5523 1688 Fax: (03) 5523 6299

QUAMBATOOK
Quambatook Auto Services
32 Gutherie Street
P: (03) 5457 1237 Fax: (03) 5457 1420

ROCHESTER
Bruce Hocking Motors Pty Ltd
85 Lowry Street
P: (03) 5484 1455 Fax: (03) 5484 1140

RUTHERGLEN
Jasper Bros Pty Ltd
62 Main Street
P: (02) 6032 8404 Fax: (02) 6032 8156

SALE
Sam Gould Holden
273 York Street
P: (03) 5144 3944 Fax: (03) 5144 6289

SEALAKE
Paddy Smith Holden
Calder Highway
P: (03) 5070 1147

SEYMOUR
Neil Beer Holden
49 Emily Street
P: (03) 5792 2777 Fax: (03) 5792 4111

SHEPPARTON
Parker Bros. Auto Co.
Benalla Road
P: (03) 5822 2666 Fax: (03) 5831 2507

STAWELL
Howden Holden
72~74 Longfield Street
P: (03) 5358 1888 Fax: (03) 5358 3954

SWAN HILL
Swan Hill Holden
94~102 Campbell Street
P: (03) 5033 1800 Fax: (03) 5032 2468

TALLANGATTA
Crispin Motors
21 Towong Street
P: (02) 6071 2414 Fax: (02) 6071 2655

TERANG
W. Christian (Terang) Pty Ltd
6a Baynes Street
P: (03) 5592 1588 Fax: (03) 5592 1481

TIMBOON
Timboon Motors
56 Bailey Street
P: (03) 5598 3007 Fax: (03) 5598 3362

TRARALGON
Colin Watson Holden
Princes Highway
P: (03) 5174 8000 Fax: (03) 5175 0050

UNDERBOOL
A.J. Gloster & Sons
Cotter Street
P: (03) 5094 6291 Fax: (03) 5094 6297

WANGARATTA
Alan Capp (New Cars) Pty Ltd
29 Tone Road
P: (03) 5721 2133 Fax: (03) 5721 4626

WARRACKNABEAL
Amor Motors Aubrey Truck Sales
33 Woolcock Street
P: (03) 5394 1055 Fax: (03) 5398 1904

WARRAGUL
Vin Rowe Holden
3 Endeavour Street
P: (03) 5623 1362 Fax: (03) 5623 4314

WARRNAMBOOL
Callaghan Motors Pty Ltd
133~137 Fairy Street
P: (03) 5562 3711 Fax: (03) 5562 7415

WODONGA
McRae White Motors
182 Melbourne Road
P: (02) 6056 2333 Fax: (02) 6024 7899

WONTHAGGI
Wonthaggi Holden
2 Murray Street
P: (03) 5672 1122 Fax: (03) 5672 4141

AUSTRALIAN HOLDEN DEALERS cont.

YARRAM
John Palmer Holden
150 Commercial Road
P: (03) 5182 5122 Fax: (03) 5182 6166

YARRAWONGA
Pigdons Pty Ltd
155 Belmore Street
P: (03) 5743 1577 Fax: (03) 5744 1788

Qld. Metropolitan

ASPLEY
Zupps Aspley Pty Ltd
1454 Gympie Road
P: (07) 3246 8000 Fax: (07) 3246 8092

BROWNS PLAINS
Zupps Hillcrest
Cnr Mt Lindsay Highway & Corporate Place
P: (07) 3802 4000 Fax: (07) 3802 4099

CAPALABA
Oldfield Holden
103 Redland Bay Road
P: (07) 3245 2200 Fax: (07) 3245 2221

EMERALD
Emerald Holden
Hospital Road
P: (07) 4983 9888 Fax: (07) 4983 9889

INDOOROOPILLY
Westpoint Holden
440 Moggill Road
P: (07) 3878 0440 Fax: (07) 3878 1340

IPSWICH
Ross Llewellyn Holden
246 Brisbane Road
P: (07) 3282 2922 Fax: (07) 3282 6359

LAIDLEY
Buhse's Garage
5 Spicer Street
P: (07) 5465 1406 Fax: (07) 5465 1706

MOOROOKA
John Sivyer Holden
1060 Ipswich Road
P: (07) 3892 3344 Fax: (07) 3848 8866

MT. GRAVATT
Zupps Motors Pty Ltd
1310 Logan Road
P: (07) 3877 0000 Fax: (07) 3877 0063

NEWSTEAD
Eagers Retail Pty Ltd
95 Breakfast Creek Road
P: (07) 3364 1199 Fax: (07) 3364 1060

PETRIE
Village Motors
1059 Gympie Road
P: (07) 3285 2244 Fax: (07) 3285 1975

REDCLIFFE
Village Holden
425 Elizabeth Avenue
P: (07) 3284 7344 Fax: (07) 3883 2711

SPRINGWOOD
Motorama Holden
3455 Pacific Highway
P: (07) 3804 4888 Fax: (07) 3208 7018

WINDSOR
Leach Holden
143 Newmarket Road
P: (07) 3357 6711 Fax: (07) 3357 5403

WOOLLOONGABBA
Armstrong Holden
73 Ipswich Road
P: (07) 3891 5522 Fax: (07) 3891 5146

WYNNUM
Doug Barton Holden
200 Tingal Road
P: (07) 3396 7777 Fax: (07) 3393 3593

Qld. Country

ATHERTON
Redding Motors Pty Ltd
2 Cook Street
P: (07) 4091 1344 Fax: (07) 4091 2039

AYR
Honeycombes Sales & Service
213~217 Queen Street
P: (07) 4783 2344 Fax: (07) 4783 2079

BEAUDESERT
Zupps Beaudesert
57 Brisbane Street
P: (07) 5541 2000 Fax: (07) 5541 3368

BILOELA
Andersons Auto City
Dawson Highway
P: (07) 4992 2833 Fax: (07) 4992 3066

BOWEN
McDermott Holden
98 Herbert Street
P: (07) 4786 1430 Fax: (07) 4786 2903

BUNDABERG
Ross Gray Holden
Takalvan Street
P: (07) 4150 1333 Fax: (07) 4150 1318

AUSTRALIAN HOLDEN DEALERS cont.

CABOOLTURE
Beecham Holden
Bribie Island Road
P: (07) 5495 1477 Fax: (07) 5495 2839

CAIRNS
Ireland Holden
227~233 Mulgrave Road
P: (07) 4052 3666 Fax: (07) 4052 3606

CALOUNDRA
Caloundra City Holden
45 Caloundra Road
P: (07) 5491 5522 Fax: (07) 5491 8016

CHARLEVILLE
Alan Dobbin Holden
129 Alfred Street
P: (07) 4654 1737 Fax: (07) 4654 3254

CHARTERS TOWERS
Peters Holden
57 Mosman Street
P: (07) 4787 1177 Fax: (07) 4787 4858

CHINCHILLA
Ainsworth Motors & Machinery Pty Ltd
55 Chinchilla Street
P: (07) 4662 7286 Fax: (07) 4662 7197

CROWS NEST
Dennis Nissen Motors
14 William Street
P: (07) 4698 1300 Fax: (07) 4698 1495

DALBY
Johnson's Holden
36 Drayton Street
P: (07) 4662 2422 Fax: (07) 4662 4311

GATTON
Gatton Auto Centre
67 Railway Street
P: (07) 5462 1633 Fax: (07) 5462 1980

GLADSTONE
Andersons Auto City
56 Yarroon Street
P: (07) 4972 1177 Fax: (07) 4972 9141

GOONDIWINDI
Carpro
Cnr Lagoon & West Streets
P: (07) 4671 2170 Fax: (07) 4671 2013

GYMPIE
Madills Holden
35 Mellor Street
P: (07) 5480 5500 Fax: (07) 5482 2672

HERVEY BAY
Whitaker Holden
96 Torquay Road
P: (07) 4128 1722

INGHAM
Devietti Holden
99 Lannercost Street
P: (07) 4776 1599 Fax: (07) 4776 3547

INNISFAIL
I.C. Taylor Pty Ltd
117 Edith Street
P: (07) 4061 1577 Fax: (07) 4061 3963

JULIA CREEK
Julia Creek Motors Pty Ltd
Burke Street
P: (07) 4746 7155 Fax: (07) 4746 7197

KILCOY
Hobart's Garage
58 Mary Street
P: (07) 5497 1204 Fax: (07) 5497 1204

KINGAROY
John Dundas Pty Ltd
79 Kingaroy Street
P: (07) 4162 1722 Fax: (07) 4162 3756

LONGREACH
Longreach Motors
33 Swan Street
P: (07) 4658 1700 Fax: (07) 4658 1857

MACKAY
Pioneer Holden
Cnr Gordon & Wellington Streets
P: (07) 4969 4299 Fax: (07) 4969 4288

MAROOCHYDORE
Sunco Holden
Wises Road
P: (07) 5443 7644 Fax: (07) 5443 7645

MARYBOROUGH
Whitaker Holden
109~111 March Street
P: (07) 4122 2255 Fax: (07) 4122 6222

MOUNT ISA
Bruce Marles Auto City
Marian Street
P: (07) 4743 3044 Fax: (07) 4743 8466

MURGON
Clifton Motors
Macalister Street
P: (07) 4168 1066 Fax: (07) 4168 1947

AUSTRALIAN HOLDEN DEALERS cont.

NAMBOUR
Sunco
Bruce Highway
P: (07) 5451 2000 Fax: (07) 5451 2099

NANANGO
Nanango Motors Pty Ltd
102 Drayton Street
P: (07) 4163 1108 Fax: (07) 4163 1108

NOOSAVILLE
Madill's
Lot 1 Lionel Donovan Drive
P: (07) 5470 0700 Fax: (07) 5474 0073

PROSERPINE
Crossley Car Sales Whitsunday Pty Ltd
162~164 Main Street
P: (07) 4945 1822 Fax: (07) 4945 2022

ROBINA
Robina Holden
16 Brabham Circuit
P: (07) 5575 0500 Fax: (07) 5562 1072

ROCKHAMPTON
Lawrence's
327 Richardson Road
P: (07) 4930 5111 Fax: (07) 4930 5112

ROMA
Maranoa Multi Agencies
Bowen Street
P: (07) 4622 2900 Fax: (07) 4622 1832

SOUTHPORT
Lockhart Holden
Cnr Nerang Road & Olsen Avenue
P: (07) 5597 2900 Fax: (07) 5597 2542

SPRINGSURE
Springsure Motors
Eclipse Street
P: (07) 4984 1177 Fax: (07) 4984 1361

ST. GEORGE
Halpin Motors
39~41 Grey Street
P: (07) 4625 5466 Fax: (07) 4625 5855

STANTHORPE
Central Motors
42 Maryland Street
P: (07) 4681 2200 Fax: (07) 4681 1479

TOOWOOMBA
Toowoomba Holden
Cnr James & Hume Streets
P: (07) 4690 0900 Fax: (07) 4690 0909

TOWNSVILLE
Tony Ireland Holden
87~91 Charters Towers Road
P: (07) 4726 7777 Fax: (07) 4721 1486

TULLY
Island Coast Holden
Bruce Highway
P: (07) 4068 1288 Fax: (07) 4068 2145

WARWICK
Deighton Motors Pty Ltd
Grafton Street
P: (07) 4661 2266 Fax: (07) 4661 1275

N.T.

ALICE SPRINGS
Kittles Holden
46 Stuart Highway
P: (08) 8952 5500 Fax: (08) 8953 0847

DARWIN
Kerry Holden
21~25 Stuart Highway
P: (08) 8980 8080 Fax: (08) 8980 8081

KATHERINE
Kittles Holden
441 Victoria Highway
P: (08) 8972 1788 Fax: (08) 8971 0209

TENNANT CREEK
Kittles Holden
Paterson Street
P: (08) 8962 2251 Fax: (08) 8962 2527

S.A. Metropolitan

ADELAIDE
City Holden
223 Grenfell Street
P: (08) 8223 7666 Fax: (08) 8359 2588

ELIZABETH
Peter Page Holden
17 Elizabeth Way
P: (08) 8255 1288 Fax: (08) 8255 9260

HILLCREST
City Holden
327~329 Main North East Road
P: (08) 8261 5855 Fax: (08) 8369 0066

MALVERN
Claridge Holden
361~367 Unley Road
P: (08) 8272 1600 Fax: (08) 8373 0057

AUSTRALIAN HOLDEN DEALERS cont.

PORT ADELAIDE
Smiths of Port Adelaide
271 Commercial Road
P: (08) 8341 2255 Fax: (08) 8341 2233

PROSPECT
Metro Holden
84~88 Main North Road
P:(08) 8343 5000 Fax: (08) 8344 9670

REYNELLA
Southgate Holden
49~59 Main South Road
P: (08) 8381 9555 Fax: (08) 8381 6274

ROSE PARK
City Holden
14 Kensington Road
P: (08) 8334 4666 Fax: (08) 8334 4610

SOMERTON PARK
Hamilton Holden
278~288 Brighton Road
P: (08) 8296 4866 Fax: (08) 8358 3957

THEBARTON
Metro Holden
1 Port Road
P: (08) 8354 9555 Fax: (08) 8443 6855

VALLEY VIEW
Plaza Holden
817~839 North East Road
P: (08) 8263 4922 Fax: (08) 8265 5200

S.A. Country

BALAKLAVA
Balaklava Motors
4 Wallace Street
P: (08) 8862 1030 Fax: (08) 8862 2000

BERRI
Rosenthal Bros Pty Ltd
Vaughan Terrace
P: (08) 8582 3644 Fax: (08) 8582 3515

BORDERTOWN
Farmers Centre
South Terrace
P: (08) 8752 0266 Fax: (08) 8752 0233

CEDUNA
Beck Motors Pty Ltd
Poynton Street
P: (08) 8625 2616 Fax: (08) 8625 3201

CLARE
Mid North Motor Company
7 Old North Road
P: (08) 8842 2200 Fax: (08) 8842 2886

CLEVE
Herbert Motors Pty Ltd
Rudall Road
P: (08) 8628 2150 Fax: (08) 8628 2537

CUMMINS
Trigg & Wedd
3 Umlauf Street
P: (08) 8676 2105 Fax: (08) 8676 2303

CRYSTAL BROOK
Crouch Rural Pty. Ltd
26 Brandis Street
P: (08) 8636 2257 Fax: (08) 8636 2088

GAWLER
Steinborner Holden
Cnr Murray & Bridge Sts
P: (08) 8522 4222 Fax: (08) 8522 4898

KADINA
J.H. Rosewarne Pty Ltd
Graves Street
P: (08) 8821 1111 Fax: (08) 8821 1686

KEITH
Farmers Centre
McBain Street
P: (08) 8755 3222 Fax: (08) 8755 3211

KIMBA
R.J. Flavel Mechanical Repairs
30 High Street
P: (08) 8627 2555 Fax: (08) 8627 2044

KINGSTON
Lecornu's Service Garage
Agnes Street
P: (08) 8767 2424 Fax: (08) 8767 2533

LOXTON
Flight Motors Pty Ltd
Bookpurnong Terrace
P: (08) 8584 7277 Fax: (08) 8584 5937

MINLATON
Southway
9 Fifth Street
P: (08) 8853 2322 Fax: (08) 8853 2451

MAITLAND
Maitland Motors Pty Ltd
58 Robert Street
P: (08) 8832 2601 Fax: (08) 8832 2673

MENINGIE
Peter Hood Holden
Cnr Princes Highway & Coonalpyn Road
P: (08) 8575 1109 Fax: (08) 8575 1537

AUSTRALIAN HOLDEN DEALERS cont.

MT. BARKER
Gilbert Motors
57 Adelaide Road
P: (08) 8391 1500 Fax: (08) 8398 2124

MT. GAMBIER
O.G. Roberts & Co
Jubilee Highway West
P: (08) 8724 1111 Fax: (08) 8724 1100

MURRAY BRIDGE
Dutton Motors Pty Ltd
7 Adelaide Road
P: (08) 8532 1999 Fax: (08) 8531 0599

NARACOORTE
Kingcraig Motors Pty Ltd
158~164 Smith Street
P: (08) 8762 1555 Fax: (08) 8762 1806

PORT AUGUSTA
Augusta Motor Company Pty Ltd
38 Stirling Road
P: (08) 8641 0488 Fax: (08) 8642 4300

PORT LINCOLN
City Motors
King Street
P: (08) 8682 1100 Fax: (08) 8682 4734

PORT PIRIE
Spencer Holden
50 Ellen Street
P: (08) 8632 3888 Fax: (08) 8632 6405

RENMARK
Rosenthal Motors Pty Ltd
Ral Ral Avenue
P: (08) 8586 6626 Fax: (08) 8586 4040

ROXBY DOWNS
Hayes Augusta Motors
10 Gosse Street
P: (08) 8671 0100 Fax: (08) 8671 0950

STRATHALBYN
Gilbert Holden - Strathalbyn
High Street
P: (08) 8536 2066 Fax: (08) 8536 2672

TANUNDA
Hage & Co Pty Ltd
50 Murray Street
P: (08) 8563 2123 Fax: (08) 8563 3488

VICTOR HARBOR
Southern Motors Holden
5 Victoria Street
P: (08) 8552 1255 Fax: (08) 8552 2788

WAIKERIE
Riverside Holden
6 Crush Terrace
P: (08) 8541 2900 Fax: (08) 8541 3325

WHYALLA
McLeods Whyalla Motor Company
64 Essington Lewis Avenue
P: (08) 8645 7388 Fax: (08) 8645 5512

YANKALILLA
Martin Motors Pty Ltd
Main Street
P: (08) 8558 2052 Fax: (08) 8558 2911

YORKETOWN
Southway Holden
7 Minalaton Road
P: (08) 8852 1322 Fax: (08) 8852 1271

W.A. Metropolitan

CANNINGTON
Brian Gardner Holden
1308~1324 Albany Hwy
P: (08) 9356 9000 Fax: (08) 9458 9144

FREMANTLE
Shacks Holden
64 Queen Victoria Street
P: (08) 9432 9432 Fax: (08) 9432 9456

GOSNELLS
Gibbons Holden
2325 Albany Highway
P: (08) 9398 2211 Fax: (08) 9398 5683

MELVILLE
Melville Holden
532~540 Canning Highway
P: (08) 9333 5333 Fax: (08) 9333 5300

MIDLAND
Goldy Holden
161 Great Eastern Highway
P: (08) 9274 8000 Fax: (08) 9274 6042

MORLEY
Metro Motors Holden
212 Walter Road West
P: (08) 9449 3522 Fax: (08) 9449 3596

NAVAL BASE
Shacks Cockburn
15 Rockingham Road
P: (08) 9410 1433 Fax: (08) 9410 2331

OSBORNE PARK
North City Holden
Cnr Scarborough Beach Rd & Harborne St
P: (08) 9273 2222 Fax: (08) 9273 2220

AUSTRALIAN HOLDEN DEALERS cont.

PERTH
City Motors
505 Newcastle Street
P: (08) 9422 7777 Fax: (08) 9422 7630

VICTORIA PARK
Youngs Holden
529 Albany Highway
P: (08) 9449 9449 Fax: (08) 9449 9494

WANNEROO
Phoenix Holden
5 Berriman Drive
P: (08) 9409 9200 Fax: (08) 9309 2140

W.A. Country

ALBANY
Mark Loveridge Holden
92~98 Earl Street
P: (08) 9842 8000 Fax: (08) 9841 8623

BRIDGETOWN
Kordics Bridgetown
Hampton Street
P: (08) 9761 1377 Fax: (08) 9761 2151

BROOKTON
Coote Motors
1 Robinson Road
P: (08) 9642 1108 Fax: (08) 9642 1003

BROOME
Norwest Holden
7 McPherson Street
P: (08) 9192 1277 Fax: (08) 9192 2230

BUNBURY
Bunbury Holden
3 Sandridge Road
P: (08) 9791 3899 Fax: (08) 9791 2990

BUSSELTON
Fennessy's
4~8 Bussel Hwy
P: (08) 9752 1577 Fax: (08) 9752 4080

CARNAMAH
T & H Walton Stores Pty Ltd
Robertson Street
P: (08) 9951 1130 Fax: (08) 9951 1082

CARNARVON
North West Autos
175 Robinson Street
P: (08) 9941 1159 Fax: (08) 9941 1363

COLLIE
Station Motors
102 Throssell Street
P: (08) 9734 1855 Fax: (08) 9734 1913

ESPERANCE
Dempster Holden
Norseman Road
P: (08) 9071 1155 Fax: (08) 9071 3799

GERALDTON
Young Motors
34 Cathedral Avenue
P: (08) 9921 1088 Fax: (08) 9964 1157

GNOWANGERUP
Umtali Nominees Pty Ltd
10 Youngenup Road
P: (08) 9827 1207 Fax: (08) 9827 1444

HARVEY
Stockman Holden
111 Uduc Road
P: (08) 9729 3333 Fax: (08) 9729 3221

KALGOORLIE
Golden City Holden
114 Boulder Road
P: (08) 9021 1699 Fax: (08) 9021 5737

KARRATHA
Moxham Motors
Lot 4551 Balmoral Road
P: (08) 9144 1225 Fax: (08) 9144 1258

KATANNING
Edwards Holden
159 Clive Street
P: (08) 9821 2388 Fax: (08) 9821 2429

KELLERBERRIN
Dowding Motors
1 Mitchell Street
P: (08) 9045 4141 Fax: (08) 9045 4466

KUNUNURRA
Elgee Holden
231 Bloodwood Drive
P: (08) 9168 2236 Fax: (08) 9169 1124

MANDURAH
Mandurah Holden
53 Pinjarra Rd
P: (08) 9535 8777 Fax: (08) 9535 8822

MANJIMUP
Manjimup Automotive Services
Pritchard Street
P: (08) 9771 1388 Fax: (08) 9777 1214

MOORA
Frank Lewis Holden
92 Gardiner Street
P: (08) 9651 1408 Fax: (08) 9651 1724

AUSTRALIAN HOLDEN DEALERS cont.

NAREMBEEN
Aquip Machinery
20 Churchill Avenue
P: (08) 9064 7214 Fax: (08) 9064 7065

NORTHAM
Withnell Motors
58 Fitzgerald Street
P: (08) 9622 1188 Fax: (08) 9622 3664

PORT HEDLAND
Moxham Motors
15 Anderson Street
P:(08) 9173 3660 Fax: (08) 9144 1258

CHAPTER 10

Towing

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10-2 Loading the vehicle
10-2 Towing weights
10-3 Tow bar ball loads
10-3 Running-in when towing
10-4 Towing precautions

LOADING AND TOWING

Overloading is a safety hazard and could also shorten the life of your vehicle.

Kerb mass (kg)

The kerb masses shown below are for the weight of a standard unloaded vehicle with 10 litres of fuel in the fuel tank. Add 15 kg if fitted with an auto transmission.

DRIVE	CAB	REAR BODY	PETROL		DIESEL
			DX	LX	LX
4 x 2	Single cab	Pick-up	1,345	1,513	
		Cab-chassis*	1,200	1,368	1,295
	Space cab	Pick-up		1,530	
		Cab-chassis*		1,410	
	Crew cab	Pick-up	1,410	1,583	
4 x 4	Single cab	Pick-up		1,635	1,635
		Cab-chassis*		1,490	1,485
	Space cab	Pick-up		1,640	1,685
		Cab-chassis*			1,540
	Crew cab	Pick-up		1,705	1,715

* excludes rear body mass

G.V.M.

Gross Vehicle Mass (G.V.M.) is the total weight that a vehicle is allowed to weigh when fully loaded. This must include luggage, passengers, a full tank of fuel and towbar ball load. The maximum, allowable G.V.M. for 2WD vehicles is 2,730 kg, 4WD is 2,740 kg.

Towing capacity (State regulations permitting)

You may tow a loaded caravan or trailer weighing up to 1,800 kg, provided the G.C.M. is not exceeded. This means that if your Rodeo is heavily loaded you would not be able to tow 1,800 kg because the combined weight of the trailer and Rodeo would exceed the G.C.M. set out below.

G.C.M.

G.C.M., or Gross Combined Mass is the maximum, allowable combined weight of a vehicle (with passengers, luggage and a full tank of fuel) plus the weight of a packed trailer.

If your trailer (or caravan) is fitted with braking which is initiated by the driver (NOT over-run operated trailer brakes) then the maximum, allowable G.C.M. for 2WD vehicles is 3,730 kg, 4WD is 3,740 kg.

If your trailer (or caravan) is not fitted with driver initiated braking then the maximum, allowable G.C.M. for 2WD vehicles is 3,230 kg, for 4WD is 3,240 kg.

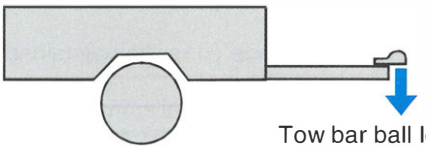
LOADING AND TOWING

Tow bar ball load

Towbar ball Load is the weight on the towbar ball when the packed trailer/ caravan is hitched.

Ideally, the ball load should be 10% of the packed trailer weight. This can be adjusted by correctly packing the contents of the trailer.

If the ball load is too light or too heavy, the steering and handling of the vehicle will be affected.



Fitting bull bars, driving lights, insect screens

When fitting these accessories be careful not to restrict air flow through the condenser and radiator, otherwise engine overheating and/or poor air conditioning performance may result.

Front & rear axle load

The maximum allowable front axle load for 2WD vehicles is 1,050 kg, 4WD is 1,150 kg. The maximum allowable rear axle load for both axle types is 1,680 kg. However, the combination of the front and rear axle load should never exceed the maximum G.V.M.

Remember to take the towbar ball load into account when determining the rear axle load.

Running-in when towing

It is best to drive your new vehicle for 1,500 km before towing a load. If you must tow before this do not exceed 80 km/h on good roads. No heavy, off road towing should be attempted before 1,500 km.

Note: Holden towing equipment is recommended where it is available. Where it is not available, no recommendation is made as to the make of equipment which should be used. Holden will not accept liability for defects occurring in towing equipment not marketed by Holden or for defects in the vehicle arising from the use of such equipment. The use of such non-recommended equipment may void your New Vehicle Warranty, to the extent that Holden considers the non-recommended equipment affects the specifications or quality of your vehicle.

TOWING PRECAUTIONS

- Your vehicle will handle differently when towing. It's a good idea to make a couple of short distance trips with the caravan or trailer before you set off on the big one.
- Have your vehicle correctly maintained and serviced.
- Have your caravan or trailer maintained and serviced, with particular attention given to condition of brakes, tyres, suspension, wheel bearings, towing coupling and lighting.
- Driving speed should be reduced when towing.
- Ensure that the loads in the trailer/caravan are secured so that they cannot slip.
- You should have an extended-arm mirror on both sides of your vehicle.
- Headlights may need re-aiming after the loaded caravan has been hitched.
- Use a lower gear, rather than your brakes when descending steep hills.
- If your caravan or trailer moves off the road behind you, allow the left wheels of your vehicle to move off as well. When it is safe to do so, carefully steer back on to the road. A sudden attempt to steer back could make you swerve dangerously.
- Avoid sudden steering manoeuvres at high speed to minimize trailer weight affecting vehicle and trailer control.
- Trailer brakes are required on trailers weighing over 500 kg when loaded. Some States require trailer brakes on loads less than 500 kg.
- The brakes on the trailer or caravan must be designed to cope with the braking requirements of that trailer or caravan under all towing conditions, without adversely affecting the brakes on the vehicle.
- Do not use axle-mounted hitches.
- Correctly rated towbar and tongue package must be used.
- Ensure that the tow bar does not obscure the rear licence plate. If necessary, remove the towbar tongue when it is not required for towing.
- More frequent vehicle maintenance is required when using your vehicle to pull a trailer or caravan, refer Chapter 12.
- It is permissible to tap into the brake system with a unit not more than 0.21cc of fluid displacement during the operation of the brakes.

Notes

CHAPTER 11

Cleaning

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11-2 Underbody cleaning
11-2 Washing tips
11-3 Wiper blades
11-3 Seat belts

CLEANING

The paint on your vehicle will stay bright and new-looking provided you wash and wax it regularly, using approved products. Weekly washing is recommended if the vehicle is being used constantly or if it is not parked under cover.

Before you wash the paint, thoroughly wash in and around the front and rear windows and check that door drain holes are clean. Hose off any heavy dirt on the glass, but leave final cleaning of the glass until last.

Underbody cleaning

The effects of salts and other corrosive materials from road surfaces can result in accelerated rusting and deterioration of underbody components such as brake and fuel lines, frame, underbody floor pan, exhaust system, brackets, parking brake cables. These corrosive effects, however, can be reduced by periodic hosing of the underbody with plain water whenever the vehicle is being washed. In geographical areas having a heavy concentration of corrosive materials it is recommended that the complete underbody be inspected and washed at least one each year, preferably after a winter's exposure. Particular attention should be given to cleaning out underbody members where dirt and other foreign materials may have collected.

Washing tips

Use either cold or warm water - preferably running.

Use clean chamois cloths, sponges or rags (old, clean linen is better than new material for glass).

Don't wash your vehicle in bright sunlight - it will streak.

Grease and oil can be removed with a little kerosene or white spirits. Flush with water afterwards.

If petrol is spilled during refilling, flush with water immediately.

Be sure that your cleaner, polish or wax is suitable.

Insect spots can be removed with a mixture of 220 grams of baking soda and 2 litres of water. Flush clean afterwards.

Do not use high pressure water to wash engine bay area.

CLEANING

Wiper blade cleaning

Much of the road scum thrown up onto the windscreen glass (causes smearing when the wipers are switched on) transfers onto the wiper blades. Many owners, whilst they methodically clean the windscreen glass, omit to clean the wiper blades and consequently smearing of the glass reappears immediately the wiper blades are set in motion. The blades can be cleaned by simply lifting them off the windscreen glass and then using warm water and a recognised washing fluid.

IMPORTANT: Do not operate the wipers blades by hand as this may damage the wiper drive mechanism.

Should the wiper blades be frozen to the windscreen, it is imperative that they be lifted off and freed by hand before switching on the wipers.

CAUTION: Many cleaners may be toxic, flammable or may damage the interior. When cleaning the interior, avoid volatile cleaners such as: acetone, lacquer thinners, enamel reducers, nail polish removers, or cleaners such as laundry soaps, bleaches or reducing agents. Never use carbon tetrachloride, petrol or naphtha for any cleaning purpose. Be sure the vehicle is well ventilated while using any cleaners and always follow the cleaning manufacturer's recommendations.

Seat belts

Clean seat belts with a mild, non-abrasive soap and luke warm water. After washing, be sure to thoroughly sponge the washing solution out of the belts.

CAUTION: Do not bleach or dye seat belts as this may severely weaken the belts.

CHAPTER 12

Servicing

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12-2 Service intervals
12-3 Extreme operating conditions
12-4 Maintenance schedule
12-6 Service costs
12-7 Maintenance coupons

SERVICE INTERVALS

When it comes to service, remember that your Holden Dealer has the trained personnel and specialised equipment to correctly service your vehicle. Your Dealer invites you to return for all your service needs both during and after the warranty period.

The safety, economy, emission control, performance and reliability of your vehicle cannot be assured unless regular maintenance is performed, preferably by factory-trained technicians at your Holden Dealer.

Therefore, it is in the owner's interest that the following services are performed at the specified Distance or Months (whichever occurs first).

5,000 km	- 3 months
10,000 km	- 6 months
20,000 km	- 1 year
30,000 km	- 1.5 years
40,000 km	- 2 years
50,000 km	- 2.5 years
60,000 km	- 3 years
70,000 km	- 3.5 years
80,000 km	- 4 years
90,000 km	- 4.5 years
100,000 km	- 5 years

The three month (5,000 kilometres) service will be performed "labour free" by the Selling Dealer.

This service may be carried out by another Holden Dealer provided you have a letter of Introduction from the Selling Dealer.

Your Dealer will supply the necessary Letter of Introduction on request.

The oil specified for diesel engines is CG grade (or ACEA B1 or B3) or better. If a lesser grade of oil is used, the oil must be changed between the regular service interval of 10,000 km or 6 months.

The services shown in this schedule between 10,000 and 100,000 are to be performed again after 100,000 km at the same intervals.

NOTE: All maintenance services as listed in this Handbook and replacement of service items are the responsibility of the owner and as such are NOT considered, under the provisions of the New Vehicle Warranty to be rectification of defective material and workmanship. Items such as wheel alignment, necessary adjustments to drive belts, transmission, clutch, parking brake, etc. or any other items which may require servicing due to fair wear and tear will be carried out at the owner's cost.

Damage caused by failure to have proper maintenance services carried out by an authorised Holden Dealer or authorised Service Outlet, or in accordance with Holden's specifications, may void your New Vehicle Warranty. It is strongly recommended that you read the "New Vehicle Warranty" in Chapter 9 so that you are aware of your Warranty exclusions.

Service coupons are provided further on in this chapter. When each service is performed the coupon is removed so that the following service coupon is readily visible to remind you when the next service is due.

After the service is completed, the owner should check that the service has been validated, by the Dealer stamping and signing the coupon stub. This is important as it will not only assist in the determination of Warranty Claims, but will enhance the value of the vehicle when selling.

EXTREME OPERATING CONDITIONS

If your vehicle operates under any of the extreme conditions listed in the following table it is recommended that some items be serviced more frequently than the intervals specified in the Maintenance Plan.

NOTE: The extra services listed below need only be used if your vehicle operates continuously under the conditions specified.

If you operate under any of these conditions on a one off basis e.g. holiday trip, then an extra service should be for that period only.

As a guide, if you operate continually for a period of one month or 1,000 kilometres under any of the extreme conditions, then this could qualify for additional services.

If at any time it is considered that the above items or other items should be more frequently serviced due to the type of operation or before a long trip, discuss the situation with the service manager of your Holden Dealer.

Change petrol engine oil every 5,000 km			C	D
Change diesel engine oil every 2,500 km			C	D
Replace engine oil filter every 5,000 km (for 4JB1T, 4JHITC and C22NE)			C	D
Replace engine oil filter every 10,000 km (for 6VD1)			C	D
Change air cleaner element every 5,000 km			C	
Inspect air cleaner element every 2,500 km (for 4JH1TC)			C	
Inspect steering system for looseness or damage every every 5,000 km		B	C	
Inspect universal joints and sleeve for wear every 5,000 km		B	C	
Change manual transmission and transfer case oil every 20,000 km		B	C	
Change auto trans fluid and strainer every 40,000 km	A	B	C	D
Replace front wheel bearing and locking hub grease every 10,000 km		B	C	
Change differential oil every 20,000 km		B	C	
Inspect brake pads and linings every 10,000 km	A	B	C	

A = Repeated short trips

B = Driving on rough roads

C = Driving on dusty, muddy roads and/or off road

D = Repeated short trips in extremely cold weather

MAINTENANCE SCHEDULE

For service specifications after 120,000 km refer to the tearout coupons.

Use odometer reading or years, whichever occurs first	x 1,000 km	5	10	20	30	40	50	60	70	80	90	100	110	120
	or years	.25	.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
UNDER BONNET														
P Engine oil *		R	R	R	R	R	R	R	R	R	R	R	R	R
P Engine oil filter C22NE *		R	R	R	R	R	R	R	R	R	R	R	R	R
P Engine oil filter 6VD1 *			R		R		R		R		R		R	
D Engine oil # *		R	Change every 10,000 km or 6 months											
D Engine oil filter *			R	R	R	R	R	R	R	R	R	R	R	R
Oil leakage and contamination		I	I	I	I	I	I	I	I	I	I	I	I	I
Fluid levels: power steering, brake, washer, clutch, battery		I	I	I	I	I	I	I	I	I	I	I	I	I
Coolant level 50% concentration		I	I	I	I	I	I	I	I	I	I	R	I	I
Radiator cap and cooling system pressure test				I		I		I		I		I		I
Idling speed and acceleration		I	I	I	I	I	I	I	I	I	I	I	I	I
P Timing belt (C22NE)												R		
P Timing belt (6VD1)		Replace every 160,000 km												
All hoses and pipes in engine compartment for deterioration or leaks		I	I	I	I	I	I	I	I	I	I	I	I	I
Clean front of radiator core and A/C condensor				I		I		I		I		I		I
Fuel filter				R		R		R		R		R		R
Air cleaner element *		I	I	I	I	R	I	I	I	R	I	I	I	R
Accessory drive belt condition		I	I	I	I	I	I	I	I	I	I	I	I	I
P Valve clearance (6VD1)												A		
D Valve clearance		A		A		A		A		A		A		A
P Spark plugs (C22NE)						R				R				R
P Spark plugs (6VD1)												R		
D Injection timing		I					I					I		
D Injector pressure & spray pattern												I		
Power steering fluid		I	I	I	I	R	I	I	I	R	I	I	I	R

MAINTENANCE SCHEDULE CONT.

Use odometer reading or years, whichever occurs first	x 1,000 km	5	10	20	30	40	50	60	70	80	90	100	110	120
	or years	.25	.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
UNDER VEHICLE														
Clutch fluid		I				R				R				R
Brake fluid		I				R				R				R
Manual trans oil *		I		I		R		I		R		I		R
Automatic trans fluid *		I		I		I		I		I		I		I
Transfer case oil*		I		I		I		I		R		I		I
Universal joints and splines for wear *				I		I		I		I		I		I
Universal joints and sliding sleeve *		L	L	L	L	L	L	L	L	L	L	L	L	L
Differential gear oil (front) *		I		I		I		I		R		I		I
Differential gear oil (rear)				I		R		I		R		I		R
Brake pads/disks and linings/drums wear*				I		I		I		I		I		I
Wheel nuts		T	T	T	T	T	T	T	T	T	T	T	T	T
Front wheel bearing and locking * hubs grease			R						R					
Front and rear hub bearing for loosness		I		I		I		I		I		I		I
Vehicle ride height		A	A	A	A	A	A	A	A	A	A	A	A	A
Tyre pressure and wheels for damage		I	I	I	I	I	I	I	I	I	I	I	I	I
Tyre rotation		Rotate as necessary												

I: Inspect and correct or replace as necessary **R**: Replace or change
T: Tighten to specified torque **L**: Lubricate **A**: Adjust **P**: Petrol **D**: Diesel

*: under extreme operating conditions more frequent maintenance is required, refer page 12-3.

#: Diesel engine oil change intervals must be reduced to 5,000 km is using a grade of engine oil less than CG/ACEA B1 or B3 classification.

MAINTENANCE SCHEDULE CONT.

Use odometer reading or years, whichever occurs first	x 1,000 km	5	10	20	30	40	50	60	70	80	90	100	110	120
	or years	.25	.5	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6
UNDER VEHICLE cont.														
General under body check: steering and suspension* components (inc. shock absorbers, all rubber bushes and boots, ball joints and connections) park brake cables, fuel system, exhaust system, brake system, bolts, nuts, hoses, pipes and check for leaks.		I	I	I	I	I	I	I	I	I	I	I	I	I
INSIDE VEHICLE														
Clutch pedal travel and free play		I	I	I	I	I	I	I	I	I	I	I	I	I
Steering wheel play		I	I	I	I	I	I	I	I	I	I	I	I	I
Brake pedal travel and free play		I	I	I	I	I	I	I	I	I	I	I	I	I
Park brake lever travel		I		I		I		I		I		I		I
Operation of lights, wipers, switches & controls		I	I	I	I	I	I	I	I	I	I	I	I	I
Park brake ratchet for wear or damage				I		I		I		I		I		I
ROAD TEST														
Check vehicle on the road for braking, steering, engine response and trans operation. Check cruise control, park pawl operation, A/C performance and neutral start switch		I	I	I	I	I	I	I	I	I	I	I	I	I
SERVICE TIMES														
Petrol engine C22NE		-	1.9	2.2	1	2.9	1	2.2	1.9	2.9	1	3.3	1	2.9
Diesel engine		-	1.9	2.2	1	2.9	1.5	2.2	1.9	2.9	1	3.7	1	2.9
Petrol engine 6 VD1		-	1.9	1.7	1	2.2	1	1.7	1.9	2.2	1	7.1	1	2.2
add for 4WD		-	0.4						0.4	0.2				

- The owner will be charged for all lubricants and materials used plus labour at the times recommended on the previous page.
- The repair or replacement of any part found faulty during a service check and not covered by Holden Warranty will be added to the charges.
- Where any deficiencies are noted, such items should be reported to the owner/operator so that the extra work required can be authorised.
- The use of break-in oil, tune up compounds, friction reducing compounds and other supplemental additives are not recommended; their use will not only increase operating costs, but may indeed be harmful to your vehicle.

5,000 km or 3 months

SERVICE COUPON

This coupon should not be removed until the vehicle is presented for service.

Owner's Name
Mr.
Mrs. .....
Miss.
Other.....

Address .....

Town .....

State ..... Postcode .....

Reg. no. ..... Engine no .....

I.S.O.V.I.N. ..... Model .....

Selling Dealer's Stamp & Signature .....

Date of Acquisition .....

This vehicle has been thoroughly checked in accordance with the schedule on the reverse side of this coupon.

Servicing Dealer's Stamp & Signature .....

Servicing Dealer .....

Town ..... State .....

Owner's signature .....

This service will be carried out without charge to the owner. The owner will, however, be charged for any lubricants or parts used.

P.T.O.

5,000 km or 3 months Service Validation

This vehicle has been thoroughly checked in accordance with the 5,000 km service.

Dealer .....

Service Manager's signature .....

Date ..... Odometer reading .....

Under hood - petrol only

- ❒ Check for oil contamination
- ❒ Change engine oil and filter if necessary (ref to schedule)
- ❒ Check fluid levels: pwr steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check all hoses & pipes in engine bay for deterioration or leaks
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil
- ❒ Check for oil contamination
- ❒ Check fluid levels: pwr steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check air cleaner element
- ❒ Check all hoses & pipes in engine compartment for deterioration or leaks
- ❒ Check injection timing
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check/correct oil: manual trans
- ❒ Check/correct oil: automatic transmission
- ❒ Check/correct oil: transfer case
- ❒ Check/correct oil level: front differential
- ❒ Check/correct oil level: rear differential
- ❒ Tighten wheel nuts
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering & suspension components, (inc. shock abs, all rubber bushes & boots, ball joints & connections) park brake cables, fuel, exhaust & brake systems, bolts, nuts, hoses, pipes for leaks
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check vehicle ride height
- ❒ Check front & rear hub bearings for looseness
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check operation of lights, wipers, switches & controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

EXTREME OPERATING CONDITIONS: OIL CHANGES

15,000 km or 9 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
25,000 km or 15 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
35,000 km or 21 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
45,000 km or 27 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
55,000 km or 33 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
65,000 km or 39 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....

EXTREME OPERATING CONDITIONS: OIL CHANGES

75,000 km or 45 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
85,000 km or 51 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
95,000 km or 57 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
105,000 km or 63 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
125,000 km or 69 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....
135,000 km or 71 Months oil change	Intermediate oil change carried out at ..... km on (date) ..... Servicing Dealer .....

10,000 km or 6 months

SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1.9 hours
- add 0.4 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses & pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

10,000 km or 6 months Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
.....
.....
.....
.....
.....

P.T.O.

Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Repack front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel free play
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches & controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

20,000 km or 1 year SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.2 hours with C22NE engine
- 2.2 hours with diesel engine
- 1.7 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Additional services performed: .....

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20,000 km or 1 year Service Validation

Servicing Dealer .....

Brake fluid changed: YES/NO

Date of Service .....

Odometer .....

Signed .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check power steering fluid

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check fluid level of manual transmission
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check level of differential gear oil (front and rear)
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches & controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

30,000 km or 1½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

30,000 km or 1½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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.....
.....

Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches & controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

40,000 km or 2 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.9 hours with C22NE engine
- 2.9 hours with diesel engine
- 2.2 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature..... Date .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Replace spark plugs (C22NE only)
- ❒ Check idling speed and acceleration
- ❒ Replace power steering fluid

40,000 km or 2 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
.....
.....
.....
.....
.....

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Replace power steering fluid

Under vehicle - petrol and diesel

- ❒ Change clutch fluid
- ❒ Change brake fluid
- ❒ Change manual transmission fluid
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check/correct oil level: front differential
- ❒ Change rear differential oil
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation - rotate as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

50,000 km or 2½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1.5 hours with diesel engine
- 1 hour with petrol engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid
- ❒ Check injection timing

P.T.O.

50,000 km or 2½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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.....
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.....
.....

Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake systems, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

60,000 km or 3 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.2 hours with C22NE engine
- 2.2 hours with diesel engine
- 1.7 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

60,000 km or 3 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
.....
.....
.....
.....
.....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check power steering fluid

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check fluid level of manual transmission
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check/correct oil level: front differential
- ❒ Check/correct oil level: rear differential
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel free play
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

70,000 km or 3½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1.9 hours
- add 0.4 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

70,000 km or 3½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Repack front wheel bearings and locking hubs
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operatlon.

80,000 km or 4 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.9 hours with C22NE engine
- 2.9 hours with diesel engine
- 2.2 hours with 6DV1 engine
- add 0.2 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: washer, auto transmission
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Replace spark plugs (C22NE only)
- ❒ Check idling speed and acceleration
- ❒ Replace power steering fluid

80,000 km or 4 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check fluid level: washer, auto transmission
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Replace power steering fluid

Under vehicle - petrol and diesel

- ❒ Change clutch fluid
- ❒ Change brake fluid
- ❒ Change manual transmission oil
- ❒ Change transfer case oil
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Change front differential oil
- ❒ Change rear differential oil
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

90,000 km or 4½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

90,000 km or 4½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

100,000 km or 5 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 3.3 hours with C22NE engine
- 3.7 hours with diesel engine
- 7.1 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Additional services performed: .....
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100,000 km or 5 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: power steering, brake, washer, clutch.
- ❒ Replace coolant
- ❒ Check radiator cap and cooling system pressure
- ❒ Replace timing belt on C22NE engine
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Inspect air cleaner element
- ❒ Adjust valve clearance of 6VD1 engine
- ❒ Check all drive belts for tension and damage
- ❒ Replace spark plugs of 6VD1 engine
- ❒ Check idling speed and acceleration

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Replace coolant
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check injection timing
- ❒ Check injector pressure and spray pattern
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check fluid level of manual transmission
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Check/correct oil level: front differential
- ❒ Check/correct oil level: rear differential
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

110,000 km or 5½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

110,000 km or 5½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

120,000 km or 6 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.9 hours with C22NE engine
- 2.9 hours with diesel engine
- 2.2 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

120,000 km or 6 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Replace spark plugs (C22NE only)
- ❒ Check idling speed and acceleration
- ❒ Replace power steering fluid

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Replace power steering fluid

Under vehicle - petrol and diesel

- ❒ Change clutch fluid
- ❒ Change brake fluid
- ❒ Change manual transmission fluid
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check/correct oil level: front differential
- ❒ Change rear differential oil
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation - rotate as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

130,000 km or 6½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

130,000 km or 6½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

140,000 km or 7 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 3.1 hours with C22NE engine
- 3.1 hours with diesel engine
- 2.3 hours with 6VD1 engine
- add 0.4 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Additional services performed: .....
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140,000 km or 7 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check power steering fluid

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check fluid level of manual transmission
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check level of differential gear oil (front and rear)
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Repack front wheel bearing and locking hubs
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches & controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

150,000 km or 7½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1.0 hours with C22NE engine
- 1.5 hours with diesel engine
- 1.0 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature.....Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch, auto transmission
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch, auto transmission.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid
- ❒ Check injection timing

P.T.O.

150,000 km or 7½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake systems, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

160,000 km or 8 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.9 hours with C22NE engine
- 2.9 hours with diesel engine
- 3.8 hours with 6VD1 engine
- add 0.2 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace timing belt on 6VD1 engine
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Replace spark plugs (C22NE only)
- ❒ Check idling speed and acceleration
- ❒ Replace power steering fluid

P.T.O.

160,000 km or 8 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Replace power steering fluid

Under vehicle - petrol and diesel

- ❒ Change clutch fluid
- ❒ Change brake fluid
- ❒ Change manual transmission oil
- ❒ Change transfer case oil
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Change front differential oil
- ❒ Change rear differential oil
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

170,000 km or 8½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

170,000 km or 8½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

180,000 km or 9 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.2 hours with C22NE engine
- 2.2 hours with diesel engine
- 1.7 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature.....Date .....

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check power steering fluid

P.T.O.

180,000 km or 9 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check fluid level of manual transmission
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check/correct oil level: front differential
- ❒ Check/correct oil level: rear differential
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel free play
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

190,000 km or 9½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

190,000 km or 9½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

200,000 km or 10 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 4.0 hours with C22NE engine
- 4.0 hours with diesel engine
- 7.5 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

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Signature ..... Date .....

Additional services performed: .....
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Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

200,000 km or 10 years Service Validation

Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Change coolant
- ❒ Replace timing belt (C22NE only)
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance (6VD1 only)
- ❒ Replace spark plugs
- ❒ Check idling speed and acceleration
- ❒ Replace power steering fluid

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check fluid level: washer
- ❒ Change coolant
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check injection timing
- ❒ Check injector pressure and spray pattern
- ❒ Replace power steering fluid

Under vehicle - petrol and diesel

- ❒ Change clutch fluid
- ❒ Change brake fluid
- ❒ Change manual transmission oil
- ❒ Check level of automatic transmission fluid
- ❒ Check level of transfer case oil
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check level of front differential oil
- ❒ Change rear differential oil
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

210,000 km or 10½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1.9 hours
- add 0.4 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

210,000 km or 10½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Repack front wheel bearings and locking hubs
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

220,000 km or 11 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.2 hours with C22NE engine
- 2.2 hours with diesel engine
- 1.7 hours with 6VD1 engine

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature..... Date .....

220,000 km or 11 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check power steering fluid

P.T.O.

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Check air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Check power steering fluid

Under vehicle - petrol and diesel

- ❒ Check fluid level of manual transmission
- ❒ Check level of automatic transmission fluid
- ❒ Check fluid level of transfer case
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Check/correct oil level: front differential
- ❒ Check/correct oil level: rear differential
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel, exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel free play
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

230,000 km or 11½ years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 1 hour

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature ..... Date .....

Under hood - petrol only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check idling speed and acceleration
- ❒ Check air cleaner element
- ❒ Check power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check all fluid levels: power steering, brake, washer, clutch.
- ❒ Check/correct coolant level and % concentration
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Check all drive belts for tension and damage
- ❒ Check air cleaner element
- ❒ Check power steering fluid

P.T.O.

230,000 km or 11½ years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....

Additional services performed: .....
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Under vehicle - petrol and diesel

- ❒ Lubricate universal joints and sliding sleeve
- ❒ Inspect front wheel bearings and locking hub grease
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary
- ❒ Tighten wheel nuts

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

240,000 km or 12 years SERVICE COUPON

I authorise performance of the services specified on the rear of this coupon.
I understand I will be charged for the following hours of labour:

- 2.9 hours with C22NE engine
- 2.9 hours with diesel engine
- 2.2 hours with 6VD1 engine
- add 0.2 hours for 4WD

Also, that there will be a charge for all lubricants, filters and parts used as a result of checks and additional services performed as requested.

There will also be a charge for additional services as requested:

.....

.....

Signature..... Date .....

240,000 km or 12 years Service Validation

Servicing Dealer .....
Brake fluid changed: YES/NO
Date of Service .....
Odometer .....
Signed .....
Additional services performed: .....
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.....
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Under hood - petrol only

- ❒ Change engine oil
- ❒ Change engine filter (C22NE only)
- ❒ Check for oil contamination
- ❒ Check fluid level: washer, auto transmission
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Replace spark plugs (C22NE only)
- ❒ Check idling speed and acceleration
- ❒ Replace power steering fluid

Under hood - diesel only

- ❒ Change engine oil and filter
- ❒ Check for oil contamination
- ❒ Check fluid level: washer, auto transmission
- ❒ Check/correct coolant level and % concentration
- ❒ Check radiator cap and cooling system pressure
- ❒ Check idling speed and acceleration
- ❒ Check all hoses and pipes in engine compartment for deterioration or leaks
- ❒ Clean front of radiator core and A/C condenser
- ❒ Replace fuel filter
- ❒ Replace air cleaner element
- ❒ Check all drive belts for tension and damage
- ❒ Adjust valve clearance
- ❒ Replace power steering fluid

Under vehicle - petrol and diesel

- ❒ Change clutch fluid
- ❒ Change brake fluid
- ❒ Change manual transmission oil
- ❒ Change transfer case oil
- ❒ Inspect universal joints and splines for wear
- ❒ Lubricate universal joints and sliding sleeve
- ❒ Change front differential oil
- ❒ Change rear differential oil
- ❒ Inspect brake pads and discs/linings and drums, front and rear
- ❒ Tighten wheel nuts
- ❒ Inspect front and rear hub bearings for looseness
- ❒ Check tyre pressure and wheels and tyres for damage
- ❒ General under body check: steering and suspension components, (inc. shock abs, all rubber bushes and boots, ball joints and connections) park brake cables, fuel , exhaust & brake system, bolts, nuts, hoses, pipes and for leaks
- ❒ Check vehicle ride height
- ❒ Tyre rotation as necessary

Interior - petrol and diesel

- ❒ Check clutch pedal travel and free play
- ❒ Check steering wheel freeplay
- ❒ Check brake pedal travel and free play
- ❒ Check park brake lever travel
- ❒ Check park brake ratchet for wear or damage
- ❒ Check operation of lights, wipers, switches and controls

Road test - petrol and diesel

- ❒ Check vehicle on the road for braking, steering, engine response and trans operation.

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